

CS101

Current Final 2021

BY AHSAN ISLAM

1. Compiler and Editor come under which software; **system software**
- 2- SLDC interaction of system with outside world is called what?
- 3- To apply the stored program concept, cpu are designed to recognize instructions encoded as___? **bit patterns.**
- 4- Black box testing is also know as___&? **Behavioral Testing**
- 5- The amount of paper American use in a year is about___? **Americans use about 680 pounds of paper per person, per year**
- 6- Hackers may attach___if you search for free music. **virus**
- 7- All network traffic of the lan must pass through___ **firewall**
- 8- Carring out illegal online transactions and damaging activities is due to ___ **online marketing**
- 9- There are ___ fundamental applications for software verification **4**
10. Which of these describe stepwise refinement? **Top down approach.**
11. Page group includes options: **Page margins**
12. Rows are identified by -----in the left most column of Ms Excel. **Numbers.**
13. we can modify a style by -----. **Setting**
14. a person involved with the entire development process, perhaps with an emphasis on the requirements analysis and design steps. **Software analyst.**
15. Things thought to be secure can be accessed by unintended source such as: **Email.**
16. Rational unified process was created by **IBM**
17. Prevents wrongful disclosure of an individual's personally identifiable information stemming from their rental or purchase of audiovisual material. **Video Privacy Protection Act**

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18. The internet and computers have also made it easier for spiteful people to attack people they know personally as well as perfect strangers via the anonymous platforms **Cyber Bullying**
19. Contact Risks **Problematic content sharing**
20. Procedure that transfers the operating system from mass storage (where it is permanently stored) into main memory **Booting**
21. Carrying out illicit online transactions and other damaging activities that can have serious ramifications. ----- **Identity theft**
22. The importance of software design can be summarized in a single word which is: Quality
23. Which is valid type of sort in Ms Excel. **Quick sort**
24. Fatal Therac-25 X-ray Radiation is an example of **software failure**
25. The symbol *<<* is known as ----- operator. **Extraction**
26. Which option provides you the ability to enter new record and navigate through existing records easily. **Forms**
26. ICANN **Internet Corporation for Assigned Names and Numbers**

Short Questions

1. Write the full form of the following abbreviations;
- EPIC **Electronic Privacy Information Center**
- PI **Privacy International**
2. - What is the major obstacle in developing programming system based on the...

A major obstacle in developing programming systems based on the declarative paradigm is the need for an underlying problem-solving

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algorithm. For this reason, early declarative programming languages tended to be special-purpose in nature, designed for use in particular applications. For example, the declarative approach has been used for many years to simulate a system (political, economic, environmental, and so on) in order to test hypotheses or to obtain predictions. In these settings, the underlying algorithm is essentially the process of simulating the passage of time by repeatedly recomputing values of parameters (gross domestic product, trade deficit, and so on) based on the previously computed values. Thus, implementing a declarative language for such simulations requires that one first implement an algorithm that performs this repetitive function. Then the only task required of a programmer using the system is to describe the situation to be simulated. In this manner, a weather forecaster does not need to develop an algorithm for forecasting the weather but merely describes the current weather status, allowing the underlying simulation algorithm to produce weather predictions for the near future.

3. Q1: Different B/W high level language and low level language?

The main difference between high level language and low level language is that, Programmers can easily understand or interpret or compile the high level language in comparison of machine. On the other hand, Machine can easily understand the low level language in comparison of human beings

4. Q2: what is register and it use?

Registers are the part of CPU and they contain data storage cells(similar to main memory cell) which are used for temporary storage of information within CPU

5. Q3: how to define syntax of array?

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Array declaration syntax is very simple. The syntax is the same as for a normal variable declaration except the variable name should be followed by subscripts to specify the size of each dimension of the array. Where Variable Type is a Modelica type like

6. Real or Integer,

Var Name is the name of the variable

7. Q4: What are parts of insert ribbon in MS word?

Pages, table, illustration, links, header and footer, text, symbols

8. Q5: how much type of sorts in MS Excel?

You can **sort** by up to 64 columns. Note: For best results, the range of cells that you **sort** should have column headings. Select any cell in the data range. On the Data tab, in the **Sort & Filter** group, click **Sort**.

9. Q6: Formula of sum to add row 3 and address of containing cell 6?

=SUM(A3:F6)

10. Q7: Geometric characteristics

Another approach to problem of character recognition is based on matching the geometric characteristics rather than the exact appearance of the symbols. In such case the digit 1 might be characterized as a single vertical line, 2 might be an open curved line joined with a horizontal straight line across the bottom.

11. Q8: write project of all teachers form teacher then student has greater than 100?

12. 9: Style is predefined in ms word can we customize own style in MS Word?

No, Style is predefined in MS Word already.

13. Arithmetic operation on data.....

(+,- ,*, /) are performed in computer and how some advance operators are performed.

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14. A use of stack.....

A stack is a list in which entries are inserted and removed only at the head. An example is a stack of books where physical restrictions dictate that all additions and deletions occur at the top

15.10. CS Impacts on society:

Computer Science has impacted lives of humans largely.

16. Positive impact of CS:

It has improved the communication between people. | Increased access to educational information via the Internet | Increased productivity of people as now their manual work has reduced significantly. | Exponential business growth | Faster response times (for example, email, instant messaging and chat) |

17. Negative Impact: People are working in sitting position and thus have more chance to develop obesity. | Exposure to inappropriate material via the Internet | Increased crime and access to private information | Hacking bank account and transfer money to your account | People are now over-dependent on technology. They even try to catch the people online even if the person is sitting near them geographically. This has decreased the social interactions as well.

18.11. Cntrl x for **cut some data** and cntrl y for **reappear**

12. Cohesion

19. The term cohesion refers to this internal binding or, in other words, the degree of relatedness of a module's internal parts. To appreciate the importance of cohesion, we must look beyond the initial development of a system and consider the entire software life cycle.

20.13. MS excess?

A database is a shared collection of logically related data that is stored to meet requirements of different users of an organization.

21.14. Can spam purpose?

Don't use false or misleading header information

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- use descriptive subject lines
- Identify the message as an ad
- Tell recipient where you are located
- Honor opt outs requests promptly
- Monitor what other are doing on your behalf

22.4- Given below are the Excel spreadsheet formulas. Correct these formulas if there is any error

1- MAX(C-36+E36+E7-E12) no idea

Long Question

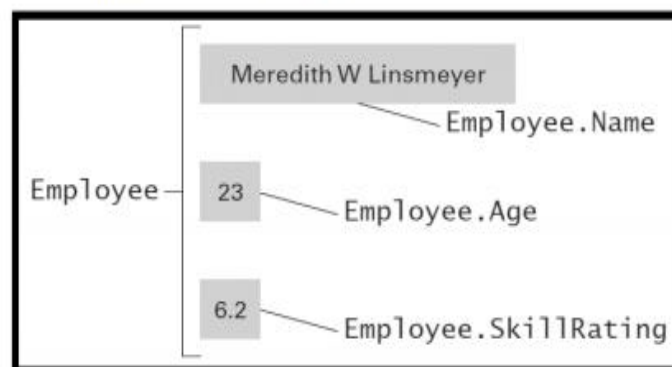
23.1-- Draw the conceptual layout of the following structure;

24. Struct {char name[25];

int age; (5 Marks)

```
struct  
{char Name[25];  
int Age;  
float SkillRating;  
} Employee;
```

which says that the variable Employee is to refer to a structure (abbreviated struct) consisting of three components called Name (a string of 25 characters), Age, and SkillRating (Figure 95). Once such an aggregate has been declared, a programmer can use the structure name (Employee) to refer to the entire aggregate or can reference individual **fields** within the aggregate by means of the structure name followed by a period and the field name (such as Employee.Age).



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25.2- How many commands editing group have in home ribbon? list three (5 Marks)

The Fifth and final group (Figure 157) on the Home ribbon is the Editing Group. The commands in the Editing group are Find, Replace, and Select. When you create a document in Microsoft Word, you may decide to change a certain word or phrase that is repeated throughout the document. Let the computer do the hard work with the Find and Replace feature in Word and you can be sure you didn't miss any. Figure 157: Editing group Under the Find command, there is the Go To command. The Go To command can be used to immediately go to a page, a section or any marked location within your document. The Select command can be used for different purpose. To select all of the text in the document, click Select All. To select shapes that are hidden, stacked, or behind text, click Select Objects, and then draw a box over the shapes. To select text with similar formatting, click Select Text with Similar Formatting.

26.3- Is there any drawback of using matching geometric characteristics technique for recognizing images in image processing? Justify your answer with two examples. (5 Marks)

27. This technique of recognizing images is one method used in optical character readers. It has the drawback, however, of requiring a certain degree of uniformity for the style, size, and orientation of the symbols being read. In particular, the bit pattern produced by a physically large character does not match the template for a smaller version of the same symbol, even though the shapes are the same. Moreover, you can imagine how the problems increase in difficulty when trying to process handwritten material. Another approach to the problem of character recognition is based on matching the geometric characteristics rather than the exact appearance of the symbols. In such cases the digit 1 might be characterized as a single vertical line, 2 might be an opened curved line joined with a horizontal straight line across the bottom, and so on. This method of recognizing symbols involves two steps: The first is to extract the features from the image being processed, and the second is to

compare the features to those of known symbols. As with the template-matching approach, this technique for recognizing characters is not foolproof. For instance, minor errors in the image can produce a set of entirely different geometric features, as in the case of distinguishing between an O and a C or, in the case of the eight-puzzle, a 3 and an 8. We are fortunate in our puzzle application because we do not need to understand images of general threedimensional scenes. Consider, for example, the advantage we have by being assured that the shapes to be recognized (the digits 1 through 8) are isolated in different parts of the picture rather than appearing as overlapping images, as is common in more general settings. In a general photograph, for instance, one is faced not only with the problem of recognizing an object from different angles but also with the fact that some portions of the object might be hidden from view. The task of understanding general images is usually approached as a two-step process: (1) image processing, which refers to identifying characteristics of the image, and (2) image analysis, which refers to the process of understanding what these characteristics mean. We have already observed this dichotomy in the context of recognizing symbols by means of their geometric features. In that situation, we found image processing represented by the process of identifying the geometric features found in the image and image analysis represented by the process of identifying the meaning of those features.

Truth Table

Operator	1st Condition	2nd Condition	Output
AND	True	True	True
	True	False	False
	False	True	False
	False	False	False
OR	True	True	True
	True	False	True
	False	True	True
	False	False	False
NOT	True	–	False
	False	–	True

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29. =IF(B4<33,"FAIL","PASS")

30. imperative paradigm

The generation approach to classifying programming languages is based on a linear scale (Figure 91) on which a language's position is determined by the degree to which the user of the language is freed from the world of computer gibberish and allowed to think in terms associated with the problem being solved. In reality, the development of programming languages has not progressed in this manner but has developed along different paths as alternative approaches to the programming process.

31. Compare Ms word and Ms PowerPoint

Ms Word creates text based documents and **MS PowerPoint** creates presentation. Users use **Ms word** when they need to make reports, letters, while **MS PowerPoint** is used when they have to make presentations.

32. Tooltip

The tooltip, also known as infotip or hint, is a common graphical user interface element in which, when hovering over a screen element or component, a text box displays information about that element. The tooltip is displayed continuously as long as the user hovers over the element.

33. Use of FLP

Recently, the **use** of the **FLP/FRT** system has allowed for the high-frequency production of mosaic animals for 95% of *Drosophila* genes. Cell markers have been engineered in this system to label mutant clones in both developing tissues and adult cuticle.

34. Privacy

Privacy Most people have their personal data spread throughout the digital world. Even things thought to be secure, such as email or private accounts, can be accessed by unintended sources. Most employers actively check their employees' computer habits. Privacy has evolving legal implications, but there are also ethical considerations. Do people know how their accounts are monitored? To what extent is such monitoring occurring? Privacy concerns can easily become a slippery slope, slowly eroding an individual's right to privacy completely.

35. What is SQL in which process it is used?

Structured Query Language (**SQL**) is the standard and most widely **used** programming language for relational databases. It is **used** to manage and organize

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data in all sorts of systems in which various data relationships exist. SQL is a valuable programming language with strong career prospects.

36. Ms Excess

A database is a shared collection of logically related data that is stored to meet requirements of different users of an organization.

37. Three disease due to e-waste

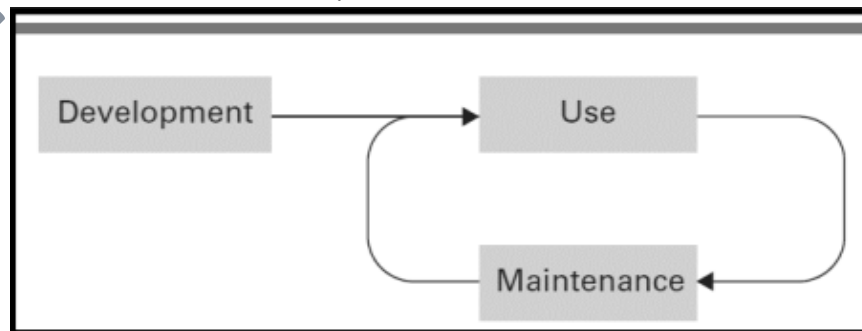
The people present around the e-waste gain diseases such as skin cancer, brain damage, lung cancer, kidney disease

38. Software Life cycle

The most fundamental concept in software engineering is the software life cycle. The software life cycle is shown in Figure 97. This figure represents the fact that once software is developed, it enters a cycle of being used and maintained—a cycle that continues for the rest of the software's life. Such a pattern is common for many manufactured products as well. The difference is that, in the case of other products, the maintenance phase tends to be a repair process, whereas in the case of software, the maintenance phase tends to consist of correcting or updating. Indeed, software moves into the maintenance phase because errors are discovered, changes in the software's application occur that require corresponding changes in the software, or changes made during a previous modification are found to induce problems elsewhere in the software.

Regardless of why software enters the maintenance phase, the process requires that a person (often not the original author) study the underlying program and its documentation until the program, or at least the pertinent part of the program, is understood. Otherwise, any modification could introduce more problems than it solves. Acquiring this understanding can be a difficult task, even when the software is well-designed and documented. In fact, it is often within this phase that a piece of software is discarded under the pretense (too often true) that it is easier to develop a new system from scratch than to modify the existing package successfully.

Experience has shown that a little effort during the development of software can make a tremendous difference when modifications are required.



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39.MIME (Multipurpose Internet Mail Extensions) to convert non-ASCII to SMTP compatible form.

40.Three prefabricated templates

C++, Java, and C#

41.Internet Multimedia Streaming

An enormous portion of current Internet traffic is used for transporting audio and video across the Internet in real-time, known as streaming. Netflix streamed more than 4 billion hours of programming to end users in the first three months of 2013 alone. Combined with YouTube, these two services will consume more than half of the bandwidth of the Internet in 2014.

42.Describe the events from 1997 when database abuse discourage by public opinion?

In 1997 the Social Security Administration in the United States modified its plan to make Social Security records available via the Internet when public opinion questioned the security of the information. In some of these cases results were obtained in days—a stark contrast to the extended time periods associated with legal processes.

Of course, in many cases database applications are beneficial to both the holder and the subject of the data, but in all cases, there is a loss of privacy that should not be taken lightly. Such privacy issues are serious when the information is accurate, but they become gigantic when the information is erroneous. Imagine the feeling of hopelessness if you realized that your credit rating was adversely affected by erroneous information. Imagine how your problems would be amplified in an environment in which this misinformation was readily shared with other institutions. Privacy problems are, and will be, a major side effect of advancing technology in general and database techniques in particular. The solutions to these problems will require an educated, alert, and active citizenry

43.Purpose of webpage

So, there you have it, the **purpose** of a **website** is to turn visitors into prospects. And the way to do this is to identify the major user types visiting your site, speak to their needs and give them a clear action step to take next.

44. Purpose of print layout

In **Print Layout** view, you get to see the entire page, just as it **prints**. Graphical images, columns, and all sorts of other fancy items show up on the page fully visible.

45.Option of find in menu of ms word

In the editing ribbon

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46. LIFO (last in – first out)

FIFO(first in- first out)

47. Protocol use in mail message

SMTP (Simple Mail Transfer Protocol),

POP (Post Office Protocol) and IMAP (Internet Message Access Protocol).

48.

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