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Name: Manz Habib

class: 1st Semester / C

DCSE, computer System

CF (computer fundamental)

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Safdar Nawaz Khan

Q3) What is firewall?

Ans) Definition

"A firewall is a software program that prevents unauthorized access to or from a private network."

Firewall are tools that can be used to enhance the security of computer connected to a network, such as LAN or the internet. They are an integral part of a comprehensive security framework for your network. It inspects incoming and outgoing traffic using a set of rules to identify and block threats. It is also called as network firewall.

It is to keep the personal data of a company safe from unknown people called hackers or third party. It is being used to filter traffic. Each firewall is having its own pros and cons. Firewall is part of cyber-security.

Q4) a) CLI and GUI :-

GUI	CLI
1) GUI stands for Graphical User Interface.	CLI stands for command line Interface.
2) GUI is slower	CLI is faster
3) There are option to change the appearance.	There are no option to change the appearance.
4) Everyone can use it easily.	User should have good knowledge of commands.
5) Requires more memory due to a lot of graphical components.	Do not require more space or storage.
6) More flexible	Not much flexible

Q4) c) Compiler and interpreter :-

Compiler	Interpreter.
1) compiler scans entire program and translates the whole of it into machine code at once.	Interpreter translate just one statement of the program at a time into machine code.
2) It take a lot of time to scan the source. But overall time is faster.	It take less time to scan the sentence. But overall time is slow.
3) compiler always generate an intermediary object code.	Interpreter does not generate an intermediary code.
4) compiler generates error message only after it scans the full program.	Interpreter generates error message when once appears.
5) Languages used are C and C++	Languages used are Ruby and python.

Q4)d) Machine Language and Assembly Language.

Machine Language	Assembly Language
1) Machine language is only comprehensible to computers	Assembly Language is only comprehensible to human.
2) Machine language data only represented with binary, hexadecimal and octa-decimal.	Assembly Language data can be represented by Mov, add, sub, End etc.
3) Execution is fast as all data is in binary format.	Execution is slower as compared to Machine language.
4) Machine language is hardware dependent.	Assembly is the machine dependent.
5) Very hard to memorize Machine Language, due to binary.	Easy to memorize Assembly language, due to Alphabets and mnemonics.

(4)

Q) DLL files and INI files:-

DLL files:-

Dynamic Link Library (DLL) is a library that can be used by more than one program at the same time using codes and data.

Example can be taken of comdlg32 DLL, which performs common dialog box related functions. By using a DLL, a program can be modularized into separate components.

INI files:-

Initialization (INI) is a file extension used in Microsoft windows. It was used in MS-DOS operating system which popularized this method of software configuration. The format has become an informal standard in many contexts of configuration.

(5)

Q3) a) In OSI reference 1st layer?

Anst

An OSI reference is bulid up by seven layer. As asked, the 1st layer is ~~layer~~ application layer.

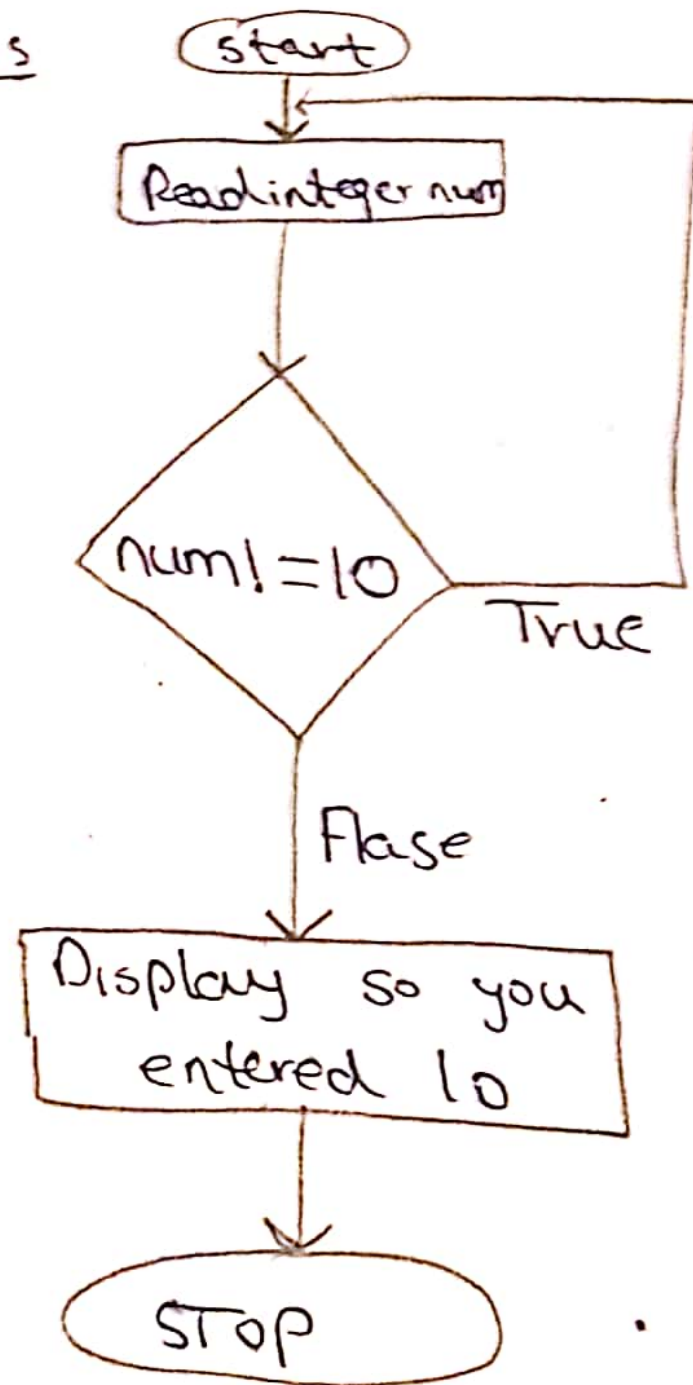
Application layers-

This layer is mostly being used by network application which means google, skype, and many other sites which are available.

Web browser is an application running in every pc being used in the world. The web browser are depended on application layer. It is or can be used for sending mails, file transfer and much more.

Q1) c) Ans For the Draw flowchart?

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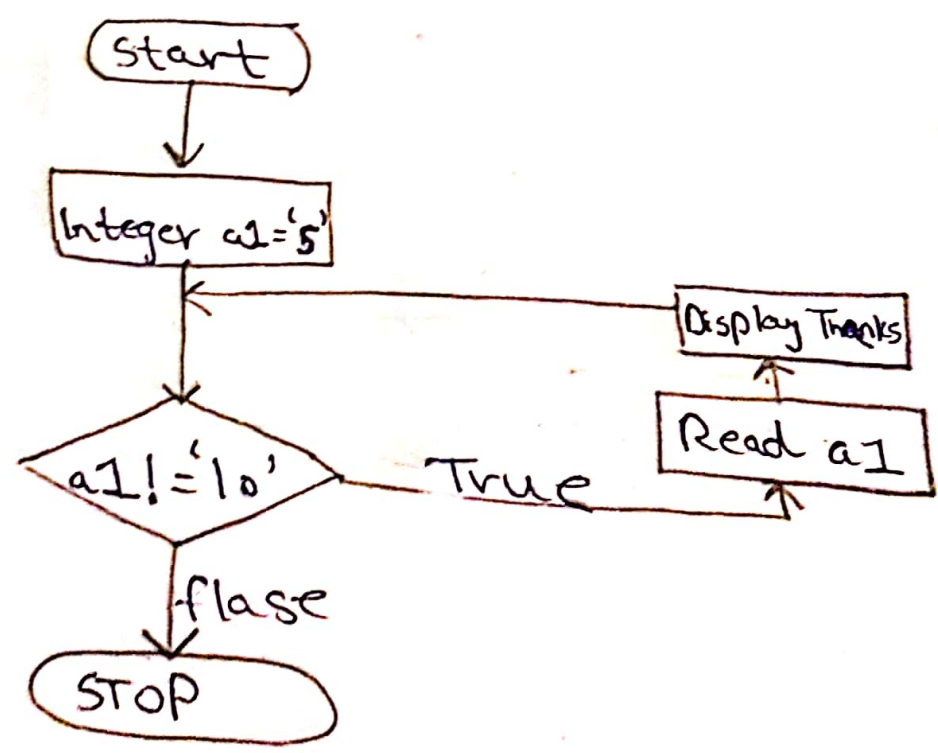
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Q1) Write flowchart.

Ans: Pseudocode:

SET character ch as "x"
WHILE ch is not 5
DISPLAY working days in a week?
Prompt the user to enter ch
READ ch
END WHILE.

Q2)



output:

'Thanks!' will be displayed two times.

Q1)a) IPO chart :-

Input	Processing	output
Prompt the user to enter integer a.	Read integer a Read integer b Read sum as 0	display Sum
Prompt the user to enter integer b	Sum $a+b$	

Q3)c) which integer? Why?

Ans:-

The best loop for finding factorial is "For Loop."

Reason:-

It is also called as counting loop and it is used to repeat a specific block of code a known number of times. It also gives us an idea to how many times we execute the loop.

Example:-

If we want to check the

(P.T.O)

number of squads in Pubg, we loop from 1 to that number. If we know how many times we used.

In factorial, we find how many time the factorial is displayed. Then we take idea from For loop because in For loop, the number of excuted loops is given.