

Solution QUIZ 1 (Dated: 10 Jan 2023)
Programming Fundamentals

Roll No: _____

Name: _____

Q1. Briefly, explain or comment the statements:

- a. Low-level programs are machine dependent

The design of low-level languages is specific to machines. One language may not run on some other machine, because of different hardware. Therefore, low-level programs need to be very specific and machine dependent.

- b. High level language is less memory efficient

High-level languages requires more resources than low languages due to various reasons (not in control of programmer). Therefore, in general high-level languages are less memory efficient.

- c. Write one advantage and one dis-advantage of interpreter

In interpreter, a fresh programmer can run first lines of program having no errors. For example, if error is on seventh line, first six lines will execute successfully. Vice versa, it is possible that some line has syntax error. The interpreter will show error only when that particular line will execute.

- d. ASCII Codes

ASCII codes are numbers assigned to characters to store them in computers. In computers, we can deal with numbers only; whereas we use many characters like alphabets, dollar sign, equal sign etc.

- e. Syntax error vs Logical errors

Syntax error is violation of rules of the programming language. For example, constant cannot come on the left side of equal sign. Logical error is some mistake, results in wrong output. For example, multiplication by 2 instead of 3.

Q2. Writing program to produce output on the right hand side window using print statements and escape sequences

Note: Everything is part of output except the box

```
print('*****')
print('Name:      Asad      Raza')
print('Gender:    Male')
print('*****      *****      *****')
```

or

```
print('*****')
print('Name:\t\tAsad\t\tRaza')
print('Gender:\tMale')
print('*****\t*****\t\t\t*****')
```

Name:	Asad	Raza
Gender:	Male	
*****	*****	*****

Q3. Give examples to show integer division and remainder

Integer Division: $13/4 = 3$ $19/5=3$

Remainder : $13\%4 =1$ $19\%5=4$