III. Answer the following questions in brief:

Brief Answers
3 Mark Questions

1. Mention the characteristics of interface. (Sep'20, Mar'23)

- The class template specifies the interfaces to enable an object to be created and operated properly.
- An object's attributes and behaviour is controlled by sending functions to the object.

2. Why strlen is called pure function?

Strlen is a pure function because the function takes one variable as a parameter; and accesses it to find its length. This function reads external memory but does not change it, and the value returned derives from the external memory accessed.

3. What is the side effect of impure function. Give example.

The most popular groups of side effects is modifying the variable outside the function.

For example:

```
y: = 0
let inc (x : int) : int : =
y: = y + x
return(y)
```

In the above example the value of y get changed inside the function definition due to which the result will change each time. The side effect of the inc() function is, it changing the data of the external visible variable 'y'.

4. Differentiate pure and impure function. (Mar '20, PTA-6)

Pure Function	Impure Function
1. The return value of the pure functions solely depends on its arguments passed. Hence, if you call the pure functions with the same set of arguments, you will always get the same return values. Example: strlen, sin(0)	1. The return value of the impure functions does not solely depend on its arguments passed. Hence, if you call the impure functions with the same set of arguments, you might get the different return values. Example: random ( ), Date ( ).
2. They do not cause any side effects	2. They cause side effects.
3. They do not modify the arguments which are passed to them	3. They may modify the arguments which are passed to them.

Did You Know

92% of the world's **currency exists on computers.** The remaining 8% comprises the **physical money.** Can you tell how many total programming languages are there? – **it's about 698.**

Diamond Guide For 12th Computer Science

Daniel Beverungen,Christiane Lehrer,Matthias Trier

Diamond Guide For 12th Computer Science:

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