Video No.: 37

Topic: C Programming (Rapid Fire Quiz-1)

Q1: sizeof operator returns size in?

a) Bits
b) Bytes
c) Kilobytes
d) Megabytes

Q2: Which of the following is the correct inline declaration of variables?

a) int a; b; c;
b) int a, int b, int c;
c) int a,b,c;
d) int a b c;

Q3: What does printf function returns?

a) Size of integer
b) Size of character
c) Number of characters printed on the screen
d) Size of Variable

Q4: ASCII decimal range of charecters from A…Z is?

a) 65 - 90
b) 97 – 122
c) 100 - 127
d) 1 - 28

Q5: Size of integers?

a) 32 bytes
b) 8 bytes
c) 16 bytes
d) Depends from machine to machine

Q6: Consider the following variable declarations and definitions in C?

i. int 39 = 1;
ii. int var_39 = 2;
iii. int_ = 3;

which of the following s correct?

a) Both i and ii are valid
b) Only ii is valid
c) Both ii and iii are valid
d) None of the above

Solution: (i) is wrong because int 39 is a invalid declaration syntax and also we cant assign a value to an integer.

Q7: Consider the following lines:

```
int var;

extern int var;
```

which of the following is correct?

a) Both statements sonly declare variables and not define them

b) Both statements declare and define variables

c) Statement 1 declares a variable and statement 2 define a variable

d) Statement 1 declare and define a variable and statement 2 just declare a variable.

Solution:

>> int var;

It means 2 things. First it is allocating a memory location for “**var**” variable which is **Definition.**

And second it declares that the variable “**var**” is an integer type variable which is **Declaration.**

>> extern int var;

It only calling the variable which is declared somewhere else in the memory. This extern system doesn’t allocate memory for the variable. So it is not definition, only declaration.

Q8: Predict the output

```
#include<stdio.h>

int var = 5;

int main(){

    int var = var;

    printf(“%d”, var);

}
```

a) 5

b) Compiler ERROR

c) Garbage Value

d) None of the above

Solution: We already declared the global variable. Again we are declaring it in a local place. So, it will produce and garbage value.

Q9: Predict the output

```
#include<stdio.h>
int main(){
    {
    int var = 10;
    }
    { printf("%d", var); }
}
```

a) 10 [✓ b) Compiler ERROR]

c) Garbage Value d) None of the above

Solution: Using unnecessary { } curly braces can cause ERROR in program.

Q10: Predict the output

```
#include<stdio.h>
int main(){
    unsigned int var = 10;
    printf("%d", ~var);
}
```

a) 10 b) -10

[✓ c) -11] d) -5

Solution: Problem understanding.