Answers of Some Important Objective Type Questions for C Language
Dr. Rahul Das Gupta

Q-1: **Predict the output of the following program.**

```c
#include<stdio.h>
void main( )
{
    int i, n=5, c=3;
    for(i=0; i<8 ; i++)
    {
        c = (i<=n)? i : --c;
    }
printf("\n i =%d", i);
printf("\n c=%d", c);
}
```

Explanation:

Here, **n=5**

i=5, 6,7, 8 (final value of i will be 8 when the condition i<8 inside the for loop will be FALSE)

Again, c=5 (i<=n is TRUE when i=5), c=4 (i<=n is FALSE when i=6), c=3 (i<=n is FALSE when i=7) and body of the for loop will not be executed when i=8. Hence, the final values of i and c are 8 and 3 respectively.

Output:

i = 8

c = 3

Q-2: **Predict the output of the following program.**

```c
#include<stdio.h>
void main( )
{
    int i, n=5, c=3;
    for(i=0; i<8 ; i++)
    {

    }
c = (i<=n)? i : --c;
printf("\n i =%d", i);
printf("\n c=%d", c);
}
```

Explanation:

Here, **n=5** and **c=3** at the beginning.

i=8 (**final value of i will be 8 when the condition i<8 inside the for loop will be FALSE.**)

c= --c (as **i<=n is FALSE when i=8**) = (3-1) = 2

Output:

i = 8

c = 2

Q-3: **Predict the output of the following program.**

```c
#include<stdio.h>
void main()
{
int i;
```

/* **printf( )** returns the **number of characters successfully printed.**

Example: printf("Rahul") returns 5.

*/

for(i = printf("Hello"); i<=printf("India") ; i++)

     printf("\nWhat is this?");

 }

Explanation:

Hello(i=5)India(i<=5 ➔Condition is TRUE, as i=5)

What is this?(i=6)India(i<=5 ➔ Condition is FALSE, as i=6 and the statement inside the body of the for loop will not be executed)

** In the above, portion written with yellow background will not be the part of the output.

Output:

HelloIndia

What is this?India