

Assignment - 4 C Language LIVE Community Classes MySirG

1. Write a C program to print Hello Students on the screen.

Answer:

Code:

```
#include<stdio.h>
main()
{
    printf("Hello Students");
}
```

Output: Hello Students

2. Write a C Program to print Hello on the first line and Students in the second line.

Answer:

Code-

```
#include<stdio.h>
main()
{
    printf(" Hello \n Students");
}
```

Output:

```
Hello
Students
```

3. Write a C program to print “MySirG” on the screen

Answer:

Code-

```
#include<stdio.h>
main()
{
    char word[]="\"MySirG\"";
    printf("%s",word);
}
```

Output- “MySirG”

4. Write a C program to print “Teacher’s Day” on the screen

Answer-

Code:

```
#include<stdio.h>
main()
{
    char word[]="\"Teacher's Day\"";
    printf("%s",word);
}
```

Output- “Teacher’s Day”

5. Write a C program to print \n on the screen

Answer-

Code:

```
#include<stdio.h>
main()
{
    char word[]="\n";
    printf("%s",word);
}
```

Output: \n

6. Write a C program to print %d on the screen

Answer:

Code:

```
#include<stdio.h>
main()
{
    char word[]="%d";
    printf("%s",word);
}
```

Output: %d

7. Write a C program containing declaration of three variables (of type int, char and float), also assign some values to them and print values of all three variables using single printf().

Answer:

Code:

```
#include<stdio.h>
main()
{
    int a=10;
    char b='A';
    float c=10.5;
    printf("%d,%c,%g",a,b,c);
}
```

Output: 10,A,10.5

8. Explore following format specifiers on internet - %i, %g, %lf

Answer - %i - is used to print integer similar as %d

%g - is used to print floating point numbers similar as %f%, but %g will remove unwanted extra zero's

%lf- is used to print double type variable same as **%f** but with double precision.

9. Write a C program to print character stored in a char variable, also print its ASCII Code.

Answer:

Code:

```
#include<stdio.h>
main()
{
    char a='z';
    int b=a;
    printf("%d",b);
}
```

Output- 122

10. How to convert a Decimal number into a Binary number and vice versa.

Answer:

- A) Steps To Convert Decimal number to Binary Number - Divide number by 2 and note down remainder, whatever is the quotient divide it by 2 again and again until and unless the quotient is equal to zero, now you have already written remainder everytime reverse that number, that's your binary number for given decimal number.**
- B) Steps to Convert Binary number to Decimal number - in first row Write 2 with its power, starts with 0 for example:- 2^0 , 2^1 , 2^2 , 2^3 Write these 2 with their power from right to left, Also write down their value below these numbers in second row, now write your binary number one by one below in third row, now only consider number 1 not 0 from that binary number written in third row and write down number exact above in row 2, do addition of those numbers from second row this addition is your decimal number.**