**C Language Live Community Classes Assignment 4grinning face**

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

**Answer-**

#include <stdio.h>

int main()

{

printf("Hello Students");

getch();

}

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

**Answer-**

#include <stdio.h>

int main()

{

printf("Hello\nStudents");

getch();

}

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

**Answer-**

#include <stdio.h>

int main()

{

printf("MySirG");

getch();

}

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

**Answer-**

#include <stdio.h>

int main()

{

printf("Teacher\'s Day");

getch();

}

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

**Answer-**

#include <stdio.h>

int main()

{

printf("\\n");

getch();

}

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

**Answer-**

#include <stdio.h>

int main()

{

printf("%%d");

getch();

}

1. 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-**

#include <stdio.h>

int main()

{

int x=5; char y='A'; float z=9.99;

printf("value of INT=%d,value of CHAR=%c,value of float=%f ",x,y,z);

getch();

}

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

**Answer-**

**%d or %i -** It is used to print the signed integer value where signed integer means that the variable can hold both positive and negative values.

**%g -** It is used to print the decimal floating-point values, and it uses the fixed precision, i.e., the value after the decimal in input would be exactly the same as the value in the output.

**%if-** It is used to print the long-signed float value.

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

**Answer-**

#include <stdio.h>

int main()

{

char y='A';

printf("value =%c, ASCII value =%d ",y,y);

getch();

}

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

**Answer-**

**How to convert decimal to binary**

1. Divide the number by 2.
2. Get the integer quotient for the next iteration.
3. Get the remainder for the binary digit.
4. Repeat the steps until the quotient is equal to 0.

**How to convert binary to decimal**

**Binary to Decimal Conversion Using Doubling Method**

Step 1: Write the binary number and start from the left-most digit. Double the previous number and add the current digit. ...

Step 2: Continue the same process for the next digit also. ...

Step 3: Continue the same step in sequence for all the digits.