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**Assignment – 4 C Language LIVE Community Classes MySirG**

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

#include<stdio.h>

int main(){

printf("Hello Students");

return 0;

}

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

#include<stdio.h>

int main(){

printf("Hello \n Students");

return 0;

}

1. **Write a C program to print “MySirG” on the screen.**
2. #include<stdio.h>
3. int main(){
4. //printf("\"MySirG\");
5. printf("\"MySirG\"\n");
6. return 0;
7. }

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

#include<stdio.h>

int main(){

printf("\"Teacher's Day\"\n");

return 0;

}

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

#include<stdio.h>

int main(){

printf("\\n\n");

return 0;

}

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

#include<stdio.h>

int main(){

printf("\\d\n");

return 0;

}

**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().**

#include<stdio.h>

int main(){

int x = 5;

float y = 3.2;

char peape = 'M';

 printf("%d\n", x);

 printf("%f\n", y);

 printf("%c\n", peape);

return 0;

}

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

**Ans. ‘%i’:** This format specifier is used for printing integers. It works similarly to ‘%d’ and ‘%u’ for decimal and unsigned decimal integers, respectively. The ‘%i’ specifier can handle both signed and unsigned integers, and it supports input in various number basses on the input’s prefix.

**%g:**

This format specifier is used for printing floating-point numners (both single and double precision) in compact format. It automatically chooses between the %f and %e formats based on the value being pointed , using the shorter of the two representations.

**%f:**

This format specifier is specifically used printing double presision floating-point numbers. It is similar to %f, which is used for both single and double precision numbers, but %if explicity specifies a double precision floating-pint value.

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

**Decimal to Binary Conversion:**

To convert a decimal number to binary, you can use the process of successive division by 2. Here's how you do it:

1. Start with the decimal number you want to convert.
2. Divide the number by 2 and note down the remainder (either 0 or 1). This remainder is the least significant bit of the binary number.
3. Divide the quotient from step 2 by 2 again and note down the remainder.
4. Repeat step 3 until the quotient becomes 0.
5. The binary equivalent is the sequence of remainders read in reverse order.

**< ------------------------------------ Assignment NO 4 Completed------------------------------------------------->**