Assignment - 1 (Input and output in C Language)

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

#include<stdio.h>

int main()

{

printf("Hello Students");

return 0;

}

2. Write a program to print Hello in the first line and Students in the second line.

#include<stdio.h>

int main()

{

printf("Hello\nStudents");

return 0;

}

3. Write a program to print “MySirG” on the screen. (Remember to print in double quotes)

#include<stdio.h>

int main()

{

printf("\"MySirG\"");

return 0;

}

4. WAP to find the area of the circle. Take radius of circle from user as input and print the result in below given format.

Expected output format – “Area of circle is A having the radius R”. Replace A with area & R with radius.

#include<stdio.h>

int main()

{

float radius;

printf("Enter value of radius to calculate area of circle: ");

scanf("%f", &radius);

printf("Area of circle is %lf having the radius %f.", 3.14 \* radius \* radius, radius);

return 0;

}

5. WAP to calculate the length of String using printf function.

#include<stdio.h>

int main()

{

char S[50];

int s\_len;

printf("Enter a string to find its length: ");

gets(S);

printf("Length of entered string \"");

s\_len = printf("%s", S);

printf("\" is %d.\n", s\_len);

return 0;

}

6. WAP to print the name of the user in double quotes.

Expected output format – “Hello , Amit Kumar”

#include<stdio.h>

int main()

{

char name[50];

printf("Enter your name: ");

gets(name);

printf("\"Hello, %s\"", name);

return 0;

}

7. WAP to print “%d” on the screen.

#include<stdio.h>

int main()

{

char firstChar = '%', secondChar = 'd';

printf("%c%c", firstChar, secondChar);

return 0;

}

8. WAP to print “\n” on the screen.

#include<stdio.h>

int main()

{

printf("\\n");

return 0;

}

9. WAP to print “\\” on the screen.

#include<stdio.h>

int main()

{

printf("\\\\");

return 0;

}

10. WAP to take date as an input in below given format and convert the date format and display the result as given below.

User Input date format – “DD/MM/YYYY” (27/11/2022)

Output format –

“Day – DD , Month – MM , Year – YYYY” (Day – 27 ,Month – 07 , Year – 2022)

#include<stdio.h>

int main()

{

char originalDate[11] = {'\0'}, day[3] = {'\0'}, month[3] = {'\0'}, year[5] = {'\0'};

printf("Enter date in the format DD/MM/YYYY : ");

gets(originalDate);

day[0] = originalDate[0];

day[1] = originalDate[1];

month[0] = originalDate[3];

month[1] = originalDate[4];

year[0] = originalDate[6];

year[1] = originalDate[7];

year[2] = originalDate[8];

year[3] = originalDate[9];

printf("Day - %s , Month - %s , Year - %s", day, month, year);

return 0;

}

11. WAP to take time as an input in below given format and convert the time format and display the result as given below.

User Input date format – “HH:MM”

Output format – “HH hour and MM Minute”

Example –

“11:25” converted to “11 Hour and 25 Minute”

#include<stdio.h>

int main()

{

char originalTime[6], hours[3], minutes[3];

printf("Enter time in format HH:MM : ");

gets(originalTime);

hours[0] = originalTime[0];

hours[1] = originalTime[1];

minutes[0] = originalTime[3];

minutes[1] = originalTime[4];

printf("%s Hour and %s Minute", hours, minutes);

return 0;

}

12. Find output of below code:

int main()

{

int x = printf(“ineuron”);

printf(“%d”,x);

return 0;

}

Output:

ineuron7