**Practical Number - 01**

**Areas Covered - Memory concepts, Data input & output, Primitive data types.**

**1.Display your name and school name in two separate lines.**

#include <stdio.h>

int main()

{

char name[30],sname[20];

printf("Enter your Name ");

scanf("%s",&name);

printf("Enter your School Name ");

scanf("%s",&sname);

printf("Your Name is %s\n",name);

printf("Your School Name is %s\n",sname);

}

**2. Display the following output using printf() statements**

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**\*\*\*\*\*\*\***

#include <stdio.h>

int main()

{

printf(" \*\n");

printf(" \*\*\*\n");

printf(" \*\*\*\*\*\n");

printf("\*\*\*\*\*\*\*\n");

}

**3. Input values for int, float, double and char data types and display the value of each of the variable.**

#include <stdio.h>

int main()

{

int n1;

float n2;

double n3;

char name;

n1=100;

n2=2.36;

n3=0.21524;

name='b';

printf("number 1 is %d\n",n1);

printf("number 2 is %f\n",n2);

printf("number 3 is %f\n",n3);

printf("character is %c",name);

}

**4. Input two integers and display the total**

#include <stdio.h>

int main()

{

int n1,n2,total;

printf("Enter a number ");

scanf("%d",&n1);

printf("Enter another number ");

scanf("%d",&n2);

total=n1+n2;

printf("First number is %d\n",total);

}

**5. Input two numbers with decimals(fractions) and display the average with decimals**

#include <stdio.h>

int main()

{

float n1,n2,avg;

printf("Enter a number ");

scanf("%f",&n1);

printf("Enter another number ");

scanf("%f",&n2);

avg=(n1+n2)/2;

printf("Average is is %f\n",avg);

}

**6. Input a student name, birth year and display student name with age.**

#include <stdio.h>

int main()

{

int byear,age;

char name[20];

printf("Enter your name ");

scanf("%s",&name);

printf("Enter birth year ");

scanf("%d",&byear);

age=2023-byear;

printf("Your name is %s\n",name);

printf("Your age is %d\n",age);

}

**7.Input two numbers, swap the values and display the output. ( Before swap and after swap)**

#include <stdio.h>

int main()

{

int n1,n2,temp;

printf("Enter the first number ");

scanf("%d",&n1);

printf("Enter the second number ");

scanf("%d",&n2);

temp = n1;

n1 = n2;

n2 = temp;

printf("First number is = %d\n", n1);

printf("Second number is = %d\n", n2);

}