| **Practical Number** | 01 |
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| **Areas covered** | Memory concepts, Data Input & output ,primitive data types |

Write a C program for each of the following question

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

#include<stdio.h>

int main()

{

printf("Dulan Nithila Liyanarachchi\n");

printf("D.S.Senanayake\n");

}

1. Display the following output using printf() statements

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#include<stdio.h>

int main()

{

printf("\*\n");

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

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

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

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

}

1. 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 n4;

printf("Enter An Integer Value - ");

scanf("%d", &n1);

printf("Enter A Float Value - ");

scanf("%f", &n2);

printf("Enter A Double Value - ");

scanf("%lf", &n3);

printf("Enter A Character - ");

scanf(" %c", &n4);

printf("\nInteger Value - %d\n", n1);

printf("Float Value - %f\n", n2);

printf("Double Value - %lf\n", n3);

printf("Character - %c\n", n4);

return 0;

}

1. Input two integers and display the total

#include <stdio.h>

int main() {

int n1, n2, sum;

printf("Enter The 1st Integer - ");

scanf("%d", &n1);

printf("Enter The 2nd Integer - ");

scanf("%d", &n2);

sum = n1 + n2;

printf("Total Is - %d\n",sum);

return 0;

}

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

#include <stdio.h>

int main() {

float n1, n2, avg;

printf("Enter The 1st Number - ");

scanf("%f", &n1);

printf("Enter The 2nd Number: ");

scanf("%f", &n2);

avg = (n1 + n2) / 2;

printf("\nAverage iS - %f\n", avg);

return 0;

}

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

#include <stdio.h>

int main() {

char sname[50];

int sbYear,age;

printf("Enter The Student's Name - ");

scanf("%s", sname);

printf("Enter The Student's Birth Year - ");

scanf("%d", &sbYear);

age = 2023 - sbYear;

printf("\nStudent's Name Is - %s\n", sname);

printf("Student's Age Is - %d\n", age);

return 0;

}

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

#include <stdio.h>

int main() {

int n1,n2,n3;

printf("Enter the 1st number - ");

scanf("%d", &n1);

printf("Enter The 2nd Number - ");

scanf("%d", &n2);

n3 = n1;

n1 = n2;

n2 = n3;

printf("\nAfter swapping\n1st Number = %d\n2nd Number = %d\n", n1,n2);

return 0;

}

1. Execute the following code and analyze the output. Study the output format.

#include<stdio.h>

main()

{

printf("The color: %s\n", "blue");

printf("First number: %d\n", 12345);

printf("Second number: %04d\n", 25);

printf("Third number: %i\n", 1234);

printf("Float number: %3.2f\n", 3.14159);

printf("Hexadecimal: %x\n", 255);

printf("Octal: %o\n", 255);

printf("Unsigned value: %u\n", 150);

printf("Just print the percentage sign %%\n", 10);

}