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

Write a C program for each of the following question

* Display your name and school name in two separate lines

include<stdio.h>

int main ()

{

printf("Manuthi\n");

printf("Holy Cross College\n");

}

return 0;

* 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");

}

return 0;

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

#include <stdio.h>

#include <stdlib.h>

int main()

{

int intvalue;

float floatvalue;

double doublevalue;

char charvalue;

printf("Enter an integer value ");

scanf("%d",&intvalue);

printf("Enter a float value ");

scanf("%f",&floatvalue);

printf("Enter a double value ");

scanf("%lf",&doublevalue);

printf("Enter a character");

scanf("%c\n",&charvalue);

printf("Integer %d\n",intvalue);

printf("Float %f\n",floatvalue);

printf("Double %lf\n",doublevalue);

printf("Character %c\n",charvalue);

return 0;

* Input two integers and display the total

#include<stdio.h>

int main ()

{

int no1,no2

printf("Enter the first number");

scanf("%d,&n01");

print("Enter the second number");

scanf("%d,&no2");

total = no1+no2;

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

}

return 0;

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

#include<stdio.h>

int main()

{

float no1,no2,avg;

printf("Enter first number");

scanf("%f",&no1);

printf("Enter the second number");

scanf("%f",&no2);

avg=(no1+no2)/2;

printf(The average is %f",avg);

}

return 0;

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

#include<stdio.h>

int main ()

{

int name,birthyear,age;

printf("Enter your name");

scanf("%s",&name);

printf("Enter your birth year");

scanf("%d",&birthyear);

age = 2023-birthyear;

printf("Name is %s Age is %d",name,age);

}

return 0;

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

#include<stdio.h>

int main()

{

int x,y,z;

x=2;

y=3;

printf("X value is %d\n",x),

printf("Yvalue is %d\n"y);

/\*swap to numbers\*/

z=x;

x=y;

y=z;

printf("X value is %d\n"x);

printf("Y value is %d\n",y);

return 0;

}

* 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);

}

The color: blue

First number: 12345

Second number: 0025

Third number: 1234

Float number: 3.14

Hexadecimal: ff

Octal: 377

Unsigned value: 150

Just print the percentage sign %

Process returned 0 (0x0) execution time : 0.016 s

Press any key to continue.