

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

```
#include <stdio.h>

int main()
{
    printf("Dinuri Sehara Jayaweera\n");
    printf ("Sp/ Vishaka Balika Vidyalaya");
    return 0;
}
```

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

```
*
**
***
****
*****
```

```
#include <stdio.h>

int main()
{
    printf("*\n");
    printf("**\n");
    printf("***\n");
    printf("****\n");
    printf("*****\n");
    return 0;
}
```

### 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 num;

    float des;

    double avg;

    char name;


    printf("Enter a number");

    scanf("%d",&num);

    printf("Enter a decimal number");

    scanf("%f",&des);

    printf("Enter an another decimal number");

    scanf("%if",&avg);

    printf("Enter your name");

    scanf("%s",&name);


    printf("%d\n",num);

    printf("%f\n",des);

    printf("%f\n",avg);
```

```
printf("%c\n",name);

return 0;

}
```

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

```
#include <stdio.h>

int main()

{

    int n1,n2,total;

    printf("Enter first number");

    scanf("%d",&n1);

    printf("Enter second number");

    scanf("%d",&n2);

    total=n1+n2;

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

    return 0;

}
```

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

```
#include <stdio.h>

int main()
{
    float n1,n2,avg;

    printf("Enter first number");

    scanf("%f",&n1);

    printf("Enter second number");

    scanf("%f",&n2);

    avg=(n1+n2)/2;

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

    return 0;

}
```

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

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int byear ,age;
```

```
    char name [15];
```

```
    printf ("Enter your name");
```

```
    scanf ("%s",&name);
```

```
    printf("Input your birth year");
```

```
    scanf ("%d",&byear);
```

```
    age=2023-byear;
```

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

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

```
    return 0;
```

```
}
```

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

```
#include <stdio.h>

int main()
{
    int n1,n2;

    printf("Enter first number");

    scanf("%d",&n1);

    printf("Enter second number");

    scanf("%d",&n2);


    //befor swap

    printf("%d\n",&n1);

    printf("%d\n",&n2);


    //after swap

    printf("%d\n",&n2);

    printf("%d\n",&n1);


    return 0;

}
```

8. 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 screenshot displays the Code::Blocks IDE with a C program and its execution output. The code defines a `main` function that uses `printf` to output various data types and format specifiers. The output window shows the results of these print statements, including a color name, integers in different formats, a float, hexadecimal and octal values, an unsigned integer, and a percentage sign.

```
main.c [practical 1] - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main.c: int
main.c X
1 #include <stdio.h>
2
3 int main()
4 {
5     printf("The color: %s\n", "blue");
6     printf("First number: %d\n", 12345);
7     printf("Second number: %04d\n", 25);
8     printf("Third number: %i\n", 1234);
9     printf("Float number: %3.2f\n", 3.14159);
10    printf("Hexadecimal: %x\n", 255);
11    printf("Octal: %o\n", 255);
12    printf("Unsigned value: %u\n", 150);
13    printf("Just print the percentage sign %%\n", 10);
14
15    return 0;
16 }
17

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 : 0.030 s
Press any key to continue.
```

