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);
}
```