

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

```
#include <stdio.h>

int main()

{

    printf ("Name: Manual Pulasthi\n");

    printf ("School: A/walisingha Harishchandra college\n");

    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 and char data types and display the value of each of the variable.

```
#include<stdio.h>

int main ()
{
    int num;

    char ch;

    printf ("Enter an integer: ");

    scanf("%d", &num);

    printf ("Enter a character: ");

    scanf(" %c", &ch);

    printf("The value of the integer is: %d\n", num);

    printf ("The value of the character is: %c\n", ch);

    return 0;

}
```

4. Input two integers and display the total

```
#include<stdio.h>

int main()
{
    int num1, num2, sum;

    printf ("Enter the first integer: ");

    scanf("%d", &num1);

    printf("Enter the second integer: ");

    scanf("%d", &num2);

    sum = num1 + num2;

    printf("The sum of %d and %d is: %d\n", num1, num2, sum);

    return 0;

}
```

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

```
#include<stdio.h>

int main()

{

float num1, num2, average;

printf("Enter the first number: ");

scanf("%f", &num1);

printf("Enter the second number: ");

scanf("%f", &num2);

average = (num1 + num2) / 2;

printf("The average of %.2f and %.2f is: %.2f\n", num1, num2, average);

return 0;

}
```

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

```
#include<stdio.h>

#include<time.h>

int main()

{

char name[50];

int birthYear, currentYear, age;

printf("Enter the student's name: ");

scanf("%s", name);

printf("Enter the student's birth year: ");

scanf("%d", &birthYear);

// Get the current year

time_t t = time(NULL);

struct tm *localTime = localtime(&t);

currentYear = localTime->tm_year + 1900;

// Calculate the student's age

age = currentYear - birthYear;

printf("Student: %s\n", name);

printf("Age: %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 num1, num2, temp;

    printf("Enter the first number: ");
    scanf("%d", &num1);
    printf("Enter the second number: ");
    scanf("%d", &num2);

    printf("\nBefore swap:\n");

    printf("First number: %d\n", num1);
    printf("Second number: %d\n", num2);

    // Swapping the values

    temp = num1;
    num1 = num2;
    num2 = temp;

    printf("\nAfter swap:\n");

    printf("First number: %d\n", num1);
    printf("Second number: %d\n", num2);

    return 0;
}
```

Question 01

```
#include<stdio.h>

int main()

{

int age;

printf("HI, HOW OLD ARE YOU? ");

scanf("%d", &age);

printf("\n\nWELCOME %d\n", age);

printf("LET'S BE FRIENDS!\n");

return 0;

}
```

Question 02

```
#include<stdio.h>

int main ()

{

printf ("% -4d%-6d%-8d\n", 2, 4, 8);

printf ("% -4d%-6d%-8d\n", 3, 9, 27);

printf ("% -4d%-6d\n", 416, 64);

printf ("% -4d%-6d\n", 525, 125);

return 0;

}
```

Question 03

```
#include<stdio.h>

int main()
{
    float distance, time, speed;

    printf("Enter the distance traveled (in meters): ");

    scanf("%f", &distance);

    printf("Enter the time taken (in seconds): ");

    scanf("%f", &time); speed = distance / time;

    printf("The average speed is: %.2f m/s\n", speed);

    return 0;
}
```

Question 04

```
#include<stdio.h>

int main()
{
    float Fahrenheit, Celsius;

    printf("Enter the temperature in Fahrenheit: ");

    scanf("%f", &Fahrenheit);

    Celsius = (5.0 / 9.0) * (Fahrenheit - 32);

    printf("Temperature in Celsius: %.2f\n", Celsius);

    return 0;
}
```