**Name Priyadarshi Prabhakar  Sap ID 590029237**

# EXPERIMENT 2 : OPERATORS

**Activity 1**: *WAP a C program to calculate the area and perimeter of a rectangle based on its length and width.*

**ALGORITHM**

**STEP1:** Start
**STEP2:** Declare variables length, width, area, perimeter
**STEP3:** Read length, width
**STEP4:** area = length * width
**STEP5:** perimeter = 2 * (length + width)
**STEP6:** Print area, perimeter
**STEP7:** End

**PSEUDOCODE :**

*START*

*Declare float length, width, area, perimeter*

*Print "Enter length: "*

*Input length*

*Print "Enter width: "*

*Input width*

*area = length * width*

*perimeter = 2 * (length + width)*

*Print "Area =", area*

*Print "Perimeter =", perimeter*

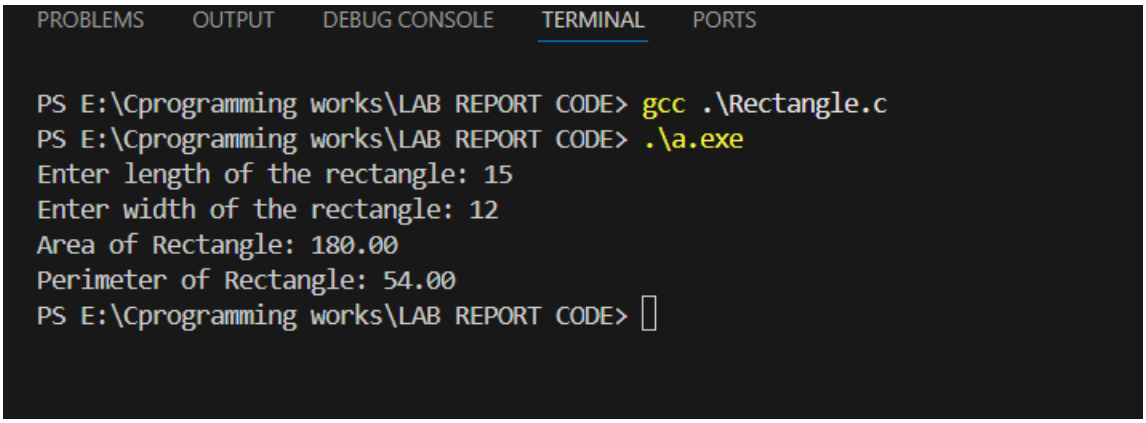
*END*

**CODE :**

```
#include <stdio.h>

int main() {
   float length, width, area, perimeter;

   printf("Enter length of the rectangle: ");
   scanf("%f", &length);

   printf("Enter width of the rectangle: ");
   scanf("%f", &width);

   area = length * width;
   perimeter = 2 * (length + width);
```

```
    printf("Area of Rectangle: %.2f\n", area);
    printf("Perimeter of Rectangle: %.2f\n", perimeter);

    return 0;
}
```

**OUTPUT:**




**Activity 2**: *WAP a C program to convert the temperature from Celsius to Fahrenheit using the formula :* F = (C * 9/5) + 32 .

**ALGORITHM :**

**STEP1:** Start
**STEP2:** Declare variables celsius, fahrenheit
**STEP3:** Read celsius
**STEP4:** fahrenheit = (celsius * 9 / 5) + 32
**STEP5:** Print fahrenheit
**STEP6:** End

**PSEUDOCODE:**

*START*

*Declare float celsius, fahrenheit*

*Print "Enter temperature in Celsius: "*

*Input celsius*

*fahrenheit = (celsius * 9 / 5) + 32*

*Print "Temperature in Fahrenheit = ", fahrenheit*

*END*

**CODE :**

```
#include <stdio.h>

int main() {
   float celsius, fahrenheit;

   printf("Enter temperature in Celsius: ");
   scanf("%f", &celsius);

   fahrenheit = (celsius * 9 / 5) + 32;
```

```
    printf("Temperature in Fahrenheit: %.2f\n", fahrenheit);

    return 0;
}
```

**OUTPUT :**