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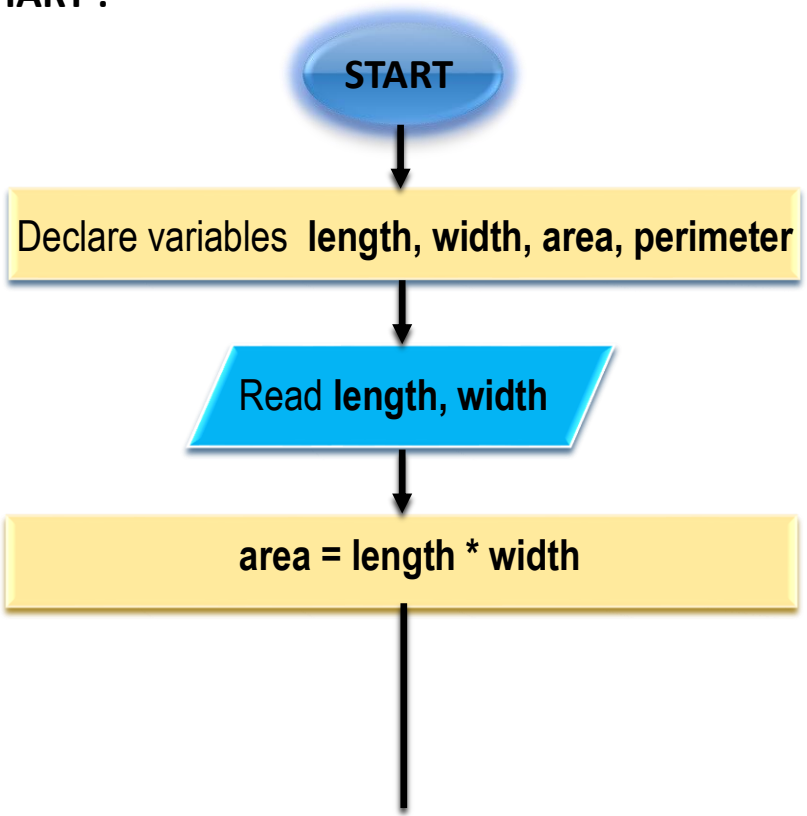
EXPERIMENT 2 : OPERATORS

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

FLOWCHART :



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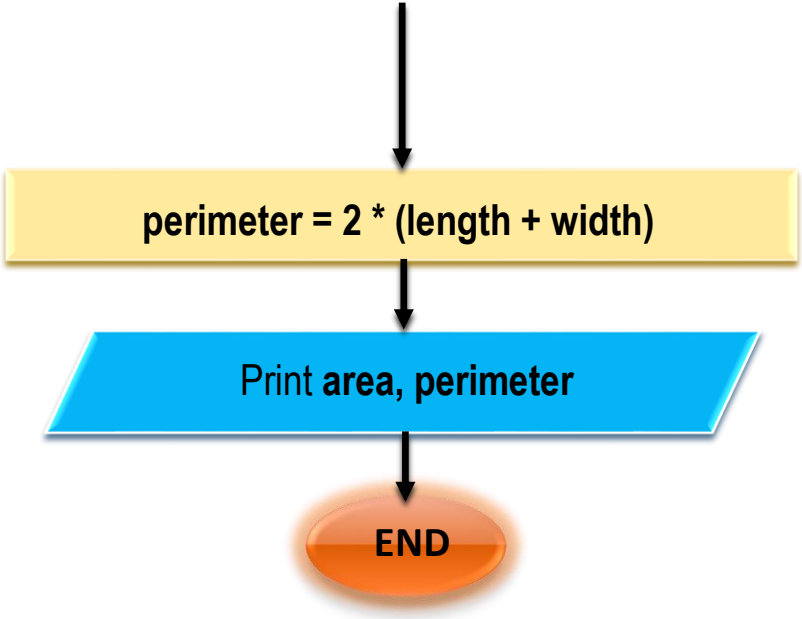

PSEUDOCODE :

```
START

declare length, width, area, perimeter AS integer

print "Enter the length of the rectangle: "
input length

print "Enter the width of the rectangle: "
input width

area ← length * width
perimeter ← 2 * (length + width)

print "Area of Rectangle = ", area
print "Perimeter of Rectangle = ", perimeter

END
```

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CODE :

```c
#include <stdio.h>

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


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


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


    printf("Area of Rectangle = %d\n", area);
    printf("Perimeter of Rectangle = %d\n", perimeter);

    return 0;
}
```

OUTPUT:

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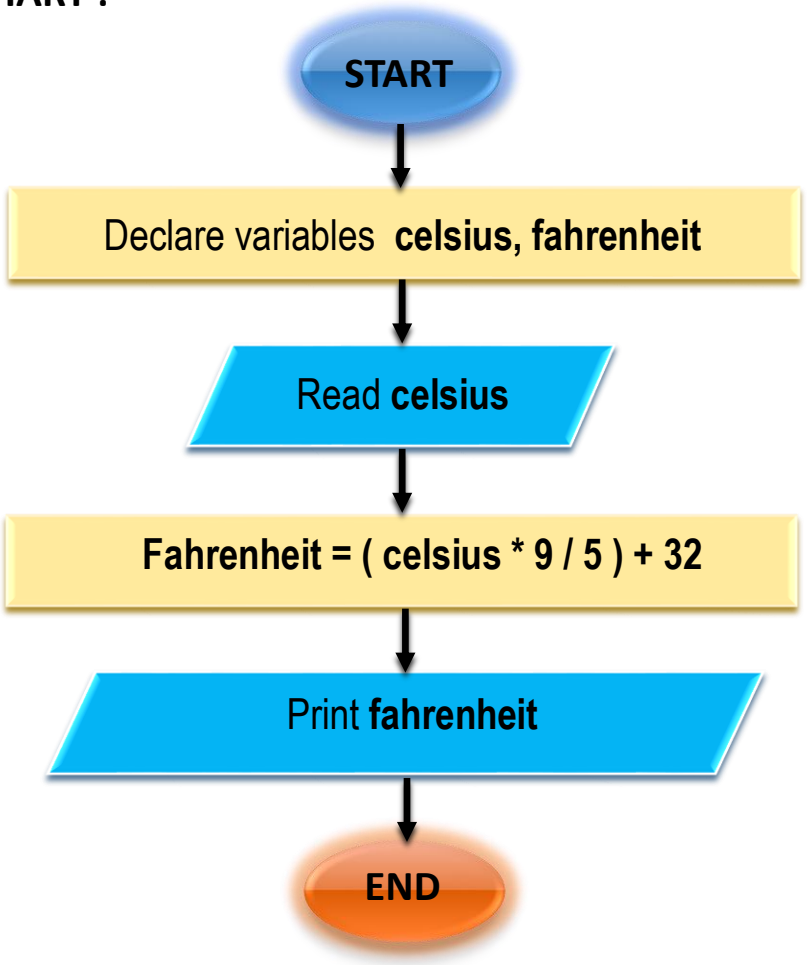
Activity 2: *WAP a C program to convert the temperature from Celsius to Fahrenheit using the formula :* F = (C * 9/5) + 32 .

ALGORITHM :

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

FLOWCHART :



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PSEUDOCODE:

```
START

declare celsius, fahrenheit AS float

print "Enter temperature in Celsius: "
input celsius

fahrenheit ← (celsius * 9 / 5) + 32

print "Temperature in Fahrenheit = ", fahrenheit

END
```

CODE :

```c
#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;
}
```

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OUTPUT :