Experiment No. : 2

Operators

2·1). WAP in C program to calculate the area and perimeter of a rectangle based on its length and width.

```
#include <stdio.h>

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

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

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

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

return 0;
printf("\n Area of the rectangle : %.2f\n", area);
printf("Perimeter of the rectangle : %.2f\n", perimeter);

return 0;
}
```

Teacher's Signature

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main.c

Share | Run

```c
// Online C compiler to run C program online
#include <stdio.h>

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

    // Input length and width from the user
    printf("Enter the length of the rectangle: ");
    scanf("%f", &length);

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

    // Calculate area and perimeter
    area = length * width;
    perimeter = 2 * (length + width);

    // Output the results
    printf("Area of the rectangle: %.2f\n", area);
    printf("Perimeter of the rectangle: %.2f\n", perimeter);

    return 0;
}
```

Output | Clear

```
Enter the length of the rectangle: 3
Enter the width of the rectangle: 2
Area of the rectangle: 6.00
Perimeter of the rectangle: 10.00

=== Code Execution Successful ===
```

26°C Cloudy | Search | ENG IN | 11:49 20-08-2025

Output: Enter the length of the rectangle : 3
Enter the width of the rectangle : 2

Area of the rectangle : 6.00
Perimeter of the rectangle : 10.00

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

```
#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°F\n", fahrenheit);

return 0;
}
```

Output: Enter temperature in celsius : 25
Temperature in Fahrenheit : 77.00°F

Teacher's Signature

main.c

Share | Run | Output | Clear

```c
// C Online Compiler to run C programs online
#include <stdio.h>

int main() {
    float celsius, fahrenheit;

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

    // Convert Celsius to Fahrenheit
    fahrenheit = (celsius * 9 / 5) + 32;

    // Output the result
    printf("Temperature in Fahrenheit: %.2f\n", fahrenheit);

    return 0;
}
```

```
Enter temperature in Celsius: 25
Temperature in Fahrenheit: 77.00

=== Code Execution Successful ===
```