Experiment No. : 2

Operators

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

```c
#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;
}
```

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Homework help

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main.c

Share   Run

Output   Clear

```c
1  #include <stdio.h>
2
3  int main() {
4      float length, width, area, perimeter;
5
6      printf("Enter the length of the rectangle: ");
7      scanf("%f", &length);
8
9      printf("Enter the width of the rectangle: ");
10     scanf("%f", &width);
11
12     area = length * width;
13     perimeter = 2 * (length + width);
14
15     printf("\n Area of the rectangle: %.2f\n", area);
16     printf("Perimeter of the rectangle: %.2f\n", perimeter);
17
18     return 0;
19 }
```

```
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 ===
```

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:
$$F = (C * 9/5) + 32$$

```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° F\n", fahrenheit);

return 0;
}
```

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

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Output

Clear

```c
1  #include <stdio.h>
2
3  int main() {
4      float celsius, fahrenheit;
5
6      printf("Enter temperature in Celsius: ");
7      scanf("%f", &celsius);
8
9      fahrenheit = (celsius * 9/5) + 32;
10
11     printf("Temperature in Fahrenheit: %.2f\n", fahrenheit);
12
13     return 0;
14 }
```

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



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