Experiment 2 : Operators

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() {               breadth
    int length, width;
    printf("enter your desired length : \n");
    scanf("%d", &length);

    printf("enter your desired breadth : \n");
    scanf("%d", &breadth);

    int area = length * breadth;
    printf("The area of the rectangle is %d \n", area);

    int add = length + breadth;
    int perimeter = 2 * add;
    printf("The perimeter of the rectangle is %d \n", perimeter);

    return 0;
}
```

```c
1   // wap a c program to calculate the area and perimeter of a rectangle based on its length and width
2   #include<stdio.h>
3   int main() {
4     int length, breadth;
5     printf("enter your desired length :\n");
6     scanf("%d",&length);
7
8     printf("enter your desired breadth:\n");
9     scanf("%d",&breadth);
10
11    int area=length*breadth;
12    printf("The area of the rectangle is %d\n",area);
13
14    int add = length + breadth ;
15
16    int perimeter=2*add;
17    printf("The perimeter of the rectangle is %d\n", perimeter);
18
19    return 0;
20  }
21
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\ACER\Desktop\c prog> gcc operators.c
PS C:\Users\ACER\Desktop\c prog> ./a.exe
enter your desired length :
9
enter your desired breadth:
34
The area of the rectangle is 306
The perimeter of the rectangle is 86
PS C:\Users\ACER\Desktop\c prog>
```

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 ("\n enter temperature in celsius: ");
    scanf ("%f", &celsius);

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

    printf ("temperature in fahrenheit = %.2f\n", fahrenheit);

    return 0;
}
```

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

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
PS C:\Users\ACER\Desktop\c prog> gcc temp.c
PS C:\Users\ACER\Desktop\c prog> ./a.exe

 Enter temperature in celcius :88
temperature in fahrenheit = 190.399994
PS C:\Users\ACER\Desktop\c prog>
```