

Exp = 2.1

→ Write a C program to find the area & perimeter of rectangle based on its length & width

→

```
# include <stdio.h>
```

```
int main ()
```

```
{
```

```
    int length , width , area , perimeter ;
```

```
    printf (" enter the length of rectangle \n " ) ;
```

```
    scanf ("%d" , &length ) ;
```

```
    printf (" enter the width of rectangle \n " ) ;
```

```
    scanf ("%d" , &width ) ;
```

```
    area = length * width ;
```

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

```
    printf (" The area of rectangle is %d \n " , area ) ;
```

```
    printf (" The perimeter of rectangle is %d " , perimeter ) ;
```

```
    return 0 ;
```

```
}
```

Teacher's Signature \_\_\_\_\_

The screenshot shows a dark-themed code editor interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, ...
- Search Bar:** c programming
- Toolbar:** Includes icons for file operations like Open, Save, Find, and others.
- Left Sidebar:** Icons for Selection, View, Go, and other tools.
- Editor Tabs:** .2.c, exp3.1.c, exp1.4.c, exp2.1.c (active tab).
- Editor Content:** The code for `exp2.1.c` is displayed. It includes declarations for `length`, `width`, `area`, and `perimeter`. It prompts the user to enter the length and width of a rectangle, calculates the area and perimeter, and prints the results.

```
C exp2.1.c > main()
1 #include <stdio.h>
2 int main() {
3     int length,width,area,perimeter;
4     printf("enter the length of rectangle\n");
5     scanf("%d" ,&length);
6
7     printf("enter the width of rectangle\n");
8     scanf ("%d" ,&width);
9
10    area = length*width;
11    perimeter = 2*(length + width);
12
13    printf("the area of rectangle is %d \n",area);
14    printf("the perimeter of rectangle is %d ",perimeter);
15    return 0;
16 }
```

- Terminal:** Shows the command-line session output. The user navigates to the directory `c:\Users\sanch\OneDrive\Desktop\c programming\output`, runs the executable `p2.1.exe`, and provides input for length (8) and width (4). The output shows the calculated area (32) and perimeter (24).

```
PS C:\Users\sanch\OneDrive\Desktop\c programming> cd 'c:\Users\sanch\OneDrive\Desktop\c programming\output'
PS C:\Users\sanch\OneDrive\Desktop\c programming\output> & .\'exp2.1.exe'
enter the length of rectangle
8
enter the width of rectangle
4
the area of rectangle is 32
the perimeter of rectangle is 24
PS C:\Users\sanch\OneDrive\Desktop\c programming\output>
```

- Bottom Bar:** Includes icons for Debug, Compile, Compile & Run, and status indicators for rows, columns, spaces, encoding, and file type (Win32).

Exp = 2.2

→ Write a C program to convert temperature from celsius to fahrenheit Using formula  $F = (c * 9/5) + 32$

→

```
# include < stdio.h >
```

```
int main()
```

```
{
```

```
int celsius, fahrenheit
```

```
printf(" enter temperature in celsius in " );
```

```
scanf(" %d ", &celsius);
```

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

```
printf (" Temperature in fahrenheit is %d ", fahrnheit);
```

```
return 0 ;
```

```
}
```

The screenshot shows a dark-themed code editor interface, likely Visual Studio Code, displaying a C programming file named `exp2.2.c`. The code implements a simple program to convert Celsius temperature to Fahrenheit.

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

The terminal tab is active, showing the command-line output of the program's execution:

```
PS C:\Users\sanch\OneDrive\Desktop\c programming> cd 'c:\Users\sanch\OneDrive\Desktop\c programming\output'
PS C:\Users\sanch\OneDrive\Desktop\c programming\output> & .\'exp2.2.exe'
enter temperature in celsius
60
Temperature in fahrenheit is 140
PS C:\Users\sanch\OneDrive\Desktop\c programming\output>
```

At the bottom, the status bar indicates the file is 0 bytes long, has 0 errors, and is using UTF-8 encoding. It also shows the current line (Ln 14, Col 1) and column (Spaces: 4).