

DAY-4

Task 2: Create a Python class named Rectangle with attributes length and breadth and methods to calculate area and perimeter.

SOLUTION:

```
class Rectangle:
```

```
    def __init__(self,length,breadth):
```

```
        self.length=length
```

```
        self.breadth=breadth
```

```
    def calculate_area(self):
```

```
        return self.length * self.breadth
```

```
    def calculate_perimeter(self):
```

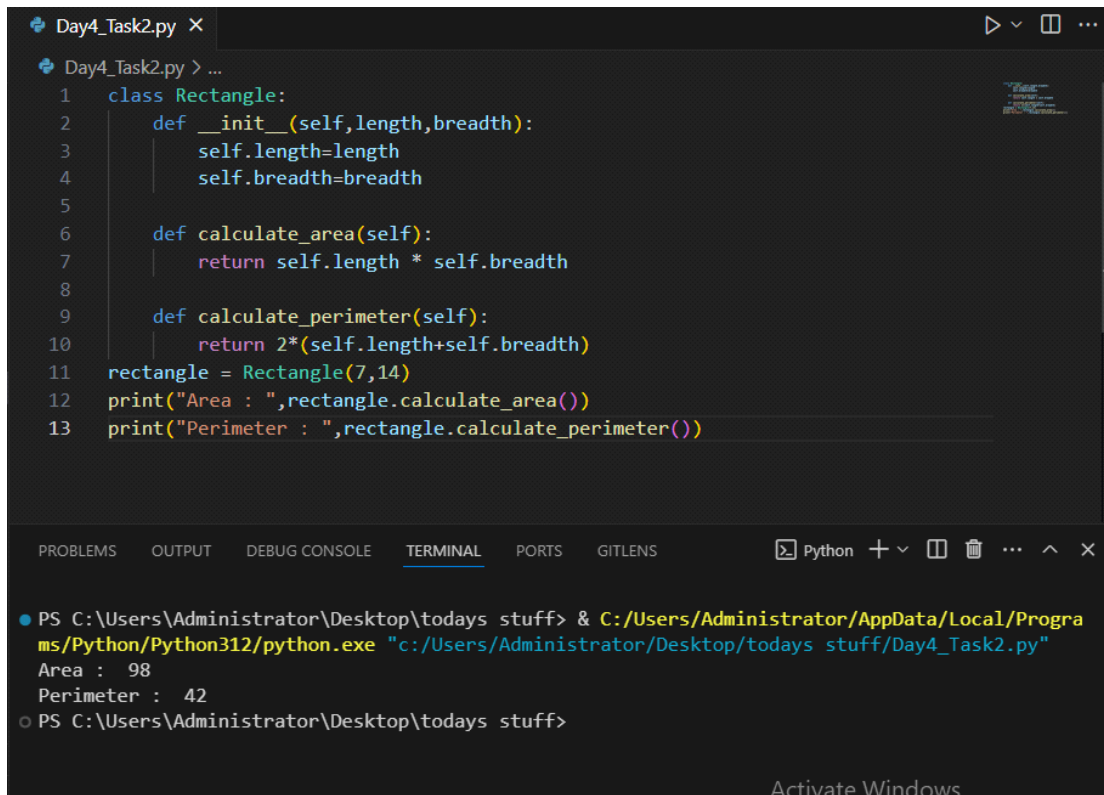
```
        return 2*(self.length+self.breadth)
```

```
rectangle = Rectangle(7,14)
```

```
print("Area : ",rectangle.calculate_area())
```

```
print("Perimeter : ",rectangle.calculate_perimeter())
```

OUTPUT:



The screenshot shows a Visual Studio Code editor window with a file named 'Day4_Task2.py'. The code defines a 'Rectangle' class with methods for calculating area and perimeter. It then creates a 'rectangle' object with length 7 and breadth 14, and prints its area and perimeter. The terminal at the bottom shows the command to run the script and the resulting output: 'Area : 98' and 'Perimeter : 42'.

```
Day4_Task2.py X
Day4_Task2.py > ...
1 class Rectangle:
2     def __init__(self,length,breadth):
3         self.length=length
4         self.breadth=breadth
5
6     def calculate_area(self):
7         return self.length * self.breadth
8
9     def calculate_perimeter(self):
10        return 2*(self.length+self.breadth)
11 rectangle = Rectangle(7,14)
12 print("Area : ",rectangle.calculate_area())
13 print("Perimeter : ",rectangle.calculate_perimeter())

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS Python + - [ ] [X] ... ^ X
● PS C:\Users\Administrator\Desktop\todays stuff> & C:/Users/Administrator/AppData/Local/Programs/Python/Python312/python.exe "c:/Users/Administrator/Desktop/todays stuff/Day4_Task2.py"
Area : 98
Perimeter : 42
○ PS C:\Users\Administrator\Desktop\todays stuff>

Activate Windows
```