Module 4: Object Oriented Programming in Python

Assignment

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Version 2.0

1. Write a Regular Expression that will match a date that follows the following standard "YYYY-MM-DD".

2. Write a Regular Expression that will match a traditional SSN.

3. Write a Regular Expression that will match an IPv4 address.

4. Write a Regular Expression that will match an email address.

5. Below is the program to calculate the area of a box. Check how it is working. Correct the program (if required).

```python
class Box:

    def area(self):

        return width * height

    def __init__(self, width, height):

        self.width = width

        self.height = height

# Create an instance of Box.

x = Box(10, 2)

# Print area.

print(x.area())
```

6. Write a program to calculate distance so that it takes two Points (x1, y1) and (x2, y2) as arguments and displays the calculated distance, using Class.

7. Correct the below program so that output should appear like this.

   • [Expected output: x-value: 5 y-value: 7]

Program:

```
class Point:

    def __init__(self, x=0, y=0):

        self.x = x

        self.y = y

    def __str__(self):

        return "x-value: " + str(self.x) + " y-value: " + str(self.y)

    def __add__(self,other):

        p.x = self.x+other.x

        p.y = self.y+other.y

        return p

p1 = Point(3,4)

p2 = Point(2,3)

print (p1+p2)
```