

```
lab13 q1.py × lab13 q2.py × lab13 q3.py × lab13 q4.py ×
1 class point:
2     def __init__(self,x,y):
3         self.x = int(input("Enter X :"))
4         self.y = int(input("Enter Y : "))
5     def __add__(self, p2):
6         return f"{self.x + p2.x},{self.y + p2.y}"
7     p1 = point(2,4)
8     p2 = point(2,4)
9     print(p1+p2)

lab13 q1 ×
"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/oop lab13/lab13 q1.py"
Enter X : 2
Enter Y : 3
Enter X : 4
Enter Y : 5
6,8
```

```
lab13 q1.py × lab13 q2.py × lab13 q3.py × lab13 q4.py ×
1 class point:
2     def __init__(self,x,y):
3         self.x = int(input("Enter X :"))
4         self.y = int(input("Enter Y : "))
5     def __add__(self, p2):
6         return f"{self.x + p2.x},{self.y + p2.y}"
7     def __lt__(self, p2):
8         a = self.x < p2.x
9         b = self.y < p2.y
10        if a and b:
11            return "P1 is smaller than P2"
12        else:
13            return "P2 is smaller than P1"
14    def __gt__(self, p2):
15        a = self.x > p2.x
16        b = self.y > p2.y
17        if a and b:
18            return "P1 is greater than P2"
19        else:
20            return "P2 is greater than P1"
21    p1 = point(2,4)

point > __init__()

lab13 q2 ×
Enter X : 2
Enter Y : 3
Enter X : 5
Enter Y : 6
7,9
P1 is smaller than P2
P2 is greater than P1
```

```
lab13 q1.py x lab13 q2.py x lab13 q3.py x lab13 q4.py x
1 class Circle:
2     def __init__(self,r):
3         self.r = int(input("Enter radius :"))
4     def __lt__(self,c2):
5         a = self.r < c2
6         if a:
7             return "C1 is smaller than C2"
8         else:
9             return "C2 is smaller than C1"
10    def __gt__(self,c2):
11        a = c2 > self.r
12        if a:
13            return "C2 is greater than C1"
14        else:
15            return "C1 is greater than C2"
16    c1 = Circle(2)
17    c2 = Circle(4)
18    print(c1.__lt__(c2))
19    print(c1.__gt__(c2))
Circle > __lt__() > if a
lab13 q3 x
"C:\Program Files\Python310\python.exe" "C:/Users/HAFIZ COMPUTER/Desktop/HASNAIN/OOP/oop lab13/lab13 q3.py"
Enter radius :22
Enter radius :34
C1 is smaller than C2
C2 is greater than C1
```

```
lab13 q1.py x lab13 q2.py x lab13 q3.py x lab13 q4.py x
1 class point:
2     def __init__(self,x,y):
3         self.x = int(input("Enter X :"))
4         self.y = int(input("Enter Y : "))
5     def __add__(self,p2):
6         return f"{self.x + p2.x},{self.y + p2.y}"
7     def __lt__(self,p2):
8         a = self.x < p2.x
9         b = self.y < p2.y
10        if a and b:
11            return "True. P1 is smaller than P2"
12        else:
13            return "False P1 is not smaller than P2"
14    def __gt__(self,p2):
15        a = self.x > p2.x
16        b = self.y > p2.y
17        if a and b:
18            return "True. P1 is greater than P2"
19        else:
20            return "False. P1 is not greater than P2"
21    p1 = point(2,4)
point > __lt__() > if a and b
lab13 q4 x
Enter X :33
Enter Y : 45
Enter X :67
Enter Y : 89
100,134
True. P1 is smaller than P2
False. P1 is not greater than P2
```