```
14    x = [2.0, 2.9, 1.5, 3.1, 2.4, 3.2, 2.8, 1.9, 3.0, 2.2]
15    y = [5.3, 8.9, 8.8, 4.4, 9.7, 8.6, 5.2, 9.8, 5.7, 5.4]
16    Cx = 2.7
17    Cy = 4.7
18    min=(((Cx-x[0])**2)+((Cy-y[0])**2))**(1/2)
19    pos=0
20    for i in range(len(x)):
21        if min>(((Cx-x[i])**2)+((Cy-y[i])**2))**(1/2):
22            min=(((Cx-x[i])**2)+((Cy-y[i])**2))**(1/2)
23            pos=i
24    print(min)
25    print(f'position of closest data point is {pos}')
```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL

```
raulrodriguez@Rauls-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raul
0.49999999999999983
position of closest data point is 3
raulrodriguez@Rauls-Air WorkSpaceVSPython %
```