In [ ]:

**from** math **import** pi

**def** calc\_area(rad): area **=** pi**\***(r**\*\***2) **return** area

r **=** float(input("Radius of Circle: ")) area **=** calc\_area(r)

print(f'The area of circle is {area:.2f} sq.units')

The area of circle is 37.39 sq.units

In [ ]:

*#lst = [10,6,3,4,5,1,8,7,3,9]*

lst **=** []

[a,b,c,d,e,f,g,h,i,j] **=** map(int,input("Enter any 10 random integers: ")**.**s lst**.**append(a)

lst**.**append(b) lst**.**append(c) lst**.**append(d) lst**.**append(e) lst**.**append(f) lst**.**append(g) lst**.**append(h) lst**.**append(i) lst**.**append(j)

print('initial Order: ')

**for** i **in** range(10): print(lst[i], end**=**' ')

print('\n')

*#SORTING in ASCENDING ORDER*

lst**.**sort()

print('After Sorting: ')

**for** i **in** range(10): print(lst[i], end**=**' ')

print('\n')

ls **=** sum(lst) print(f'Sum: {ls}\n')

initial Order:

1 4 3 5 3 2 5 6 3 2

After Sorting:

1 2 2 3 3 3 4 5 5 6

Sum: 34

In [ ]:

temp **=** {'Chennai': 35.3,

'Delhi': 37.4,

'Goa': 30.7,

'Kolkata':32.1,

'Mumbai': 36.5,

'Ahmedabad': 33.7,

'Hyderabad': 38.7,

'Nagpur': 33.0,

'Patna': 37.9}

**while True**:

inp **=** input('Enter the city number to check the temperature: ')

**if** inp **in** temp:

print(f'The temperature in {inp} is {temp[inp]}°C')

**break else**:

print('Invalid city name. Try again')

Invalid city name. Try again Invalid city name. Try again Invalid city name. Try again

The temperature in Delhi is 37.4°C