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
```