

AIM :- Compute Diameter , Circumference and Volume of Sphere Using Class

```
In [20]: class sphere:
          def __init__(self):
              radius = int(input("Enter the Radius of the Sphere :- "))
              self.radius = radius

          def diameter(self):
              dia = self.radius * 2
              print(f"Diameter of the sphere is {dia} meters")

          def circumference(self):
              circum = 2*3.1412*self.radius
              print(f"Circumference of the circle is {round(circum,3)} meters")

          def volume(self):
              vol = (4/3)*3.1412*(self.radius**3)
              print(f"Volume of the Sphere is {round(vol,3)} cubic meters")
```

```
In [21]: s1 = sphere()
```

Enter the Radius of the Sphere :- 56

```
In [22]: s1.diameter()
          s1.circumference()
          s1.volume()
```

Diameter of the sphere is 112 meters
Circumference of the circle is 351.814 meters
Volume of the Sphere is 735526.639 cubic meters

```
In [ ]:
```