1. Write a python program to calculate compound interest.

```
P = int(input("Principle (amount): "))
R= int(input("Rate: "))
T = float(input("Time: "))
C = P*(1+R/100)**T
print ("Compound Interest = ",round(C,6))
```

```
Principle (amount): 1200
Rate: 2
Time: 5.4
Compound Interest =  1335.433214
```

2. Write a python program to calculate the surface area and volume of a cylinder.

```
r= float(input("r: "))
h= float(input("h: "))
s= 2*3.1416*r**2+2*3.1416*r*h
v= 3.1416*r**2*h
print("Surface area: ",round(s,2), "square units")
print("Volume: ",round(v,2),"cubic units")
```

```
r: 10
h: 5
Surface area:  942.48 square units
Volume:  1570.8 cubic units
```

3. Write a python program to calculate the volume and surface area of Cone.

```
r= float(input("radius: "))
h= float(input("height: "))
v= 1/3*3.1416*r**2*h
sa=3.1416*r*h+3.1416*r**2
print("Volume of cone: ",round(v,2),"cubic units")
print("Surface area :", round(sa,2),"square units")
```

```
radius: 10
height: 5
Volume of cone:  523.6 cubic units
Surface area : 471.24 square units
```

4. Write a python program to calculate the volume and surface area of Sphere.

```
r= float(input("r: "))
v=4/3*3.1416*r**3
sa=4*3.1416*r**2
print("Surface Area: ",sa)
print("Volume: ",v)
```

```
r: 10
Surface Area:  1256.6399999999999
Volume:  4188.799999999999
```