- 1_1

```
import math
r=float(input("请输入圆的半径r:"))
p=2*math.pi*r
s=math.pi*r**2
print("圆的周长为: ",p)
print("圆的面积为: ",s)
```

```
请输入圆的半径r:1
圆的周长为:  6.283185307179586
圆的面积为:  3.141592653589793
```

- 1_2

```
import math
r=float(input("请输入圆的半径r:"))
s=4*math.pi*r**2
v=4/3*math.pi*r**3
print("球的表面积为: ",s)
print("球的体积为: ",v)
```

```
请输入圆的半径r:1
球的表面积为:  12.566370614359172
球的体积为:  4.1887902047863905
```

- 2_1

```
def sayHello():
    print('Hello World!')
    print('To be or not to be,this is a question!')
sayHello()
```

```
Hello World!
To be or not to be,this is a question!
```

- 3_1

```
def getValue(b,r,n):
    v=b*((1+r)**n)
    return v
total=getValue(1000,0.05,5)
print(total)
```

```
1276.2815625000003
```

- 3_2

```
def getValue(b,r,n):
    v=b*((1+r)**n)
    return v
b=float(input("请输入本金b:"))
r=float(input("请输入年利率r:"))
n=float(input("请输入年数n:"))
total=getValue(b,r,n)
print("最终受益:","%.2f" %total )
```

```
请输入本金b:1
请输入年利率r:1
请输入年数n:1
最终受益: 2.00
```

- 4_1

```
import math
a=1;b=5;c=6
x1=(-b+math.sqrt(b*b-4*a*c))/(2*a)
x2=(-b-math.sqrt(b*b-4*a*c))/(2*a)
print("方程x*x+5*x+6=0的解为：",x1,x2)
```

```
方程x*x+5*x+6=0的解为： -2.0 -3.0
```

- 4_2

```
import math
a=1;b=-10;c=16
x1=(-b+math.sqrt(b*b-4*a*c))/(2*a)
x2=(-b-math.sqrt(b*b-4*a*c))/(2*a)
print("方程x*x-10*x+16=0的解为：",x1,x2)
```

```
方程x*x-10*x+16=0的解为： 8.0 2.0
```