1. Calculate area of circle

```
import math
print("Area of Circle: ", math.pi*float(input("Enter radius of circle: "))**2)
```

```
Enter radius of circle: 4.5
Area of Circle:  63.61725123519331
```

2. Find circumference of circle

```
import math
print("Circumfrence of Circle: ", 2*math.pi*float(input("Enter radius of circle: ")))
```

```
Enter radius of circle: 2.3
Circumfrence of Circle:  14.451326206513047
```

3. Calculate area of rectangle

```
print("Area of Rectangle: ", float(input("Enter length: "))*float(input("Enter breadth: ")))
```

```
Enter length: 4
Enter breadth: 5
Area of Rectangle:  20.0
```

54. Calculate volume of sphere

```
import math
print("Volume of Sphere: ", (4*math.pi*float(input("Enter radius of sphere: "))**3)/3)
```

```
Enter radius of sphere: 4.6
Volume of Sphere:  407.7200833730881
```

5. Find surface area of sphere

```
import math
print("Surface Area of Sphere: ", 4*math.pi*float(input("Enter radius of sphere: "))**2)
```

```
Enter radius of sphere: 4.2
Surface Area of Sphere:  221.6707776372958
```

6. Find area of square

```
print("Area of Square: ", float(input("Enter length of side: "))**2)
```

```
Enter length of side: 2.5
Area of Square:  6.25
```

7. Find area of right angle triangle

```
print("Area of Right-Angled Triangle: ", (float(input("Enter height of right-angle: "))*float(input("Enter breadth of right-angle: ")))/2)
```

```
Enter height of right-angle: 3.2
Enter breadth of right-angle: 2.4
Area of Right-Angled Triangle:  3.84
```

8. Find area of equilateral triangle

```
import math
print("Area of Equilateral Triangle: ", (math.sqrt(3)*float(input("Enter side of Equilateral Triangle: "))**2)/4)
```

```
Enter side of Equilateral Triangle: 4.6
Area of Equilateral Triangle:  9.16254877203936
```

9. Find perimeter of rectangle

```
print("Perimeter of Rectangle: ", (float(input("Enter length: "))+float(input("Enter breadth: ")))*2)
```

```
Enter length: 4.2
Enter breadth: 3.8
Perimeter of Rectangle:  16.0
```

10. Find area of triangle

```
print("Area of Triangle: ", (float(input("Enter altitude: "))*float(input("Enter base: ")))/2)
```

```
Enter altitude: 6.8
Enter base: 9.3
Area of Triangle:  31.62
```

11. Find simple interest

```
print("Simple Interest: ", (float(input("Enter Principal: "))*float(input("Enter Rate of Interest per annum: "))*float(input("Enter time unit in years: ")))/100)
```

```
Enter Principal: 1000
Enter Rate of Interest per annum: 10
Enter time unit in years: 2
Simple Interest:  200.0
```

12. Find compound interest

```
p=float(input("Enter Principal: "))
r=float(input("Enter rate of interest per annum: "))
t=float(input("Enter time unit in years: "))
print("Compund Interest: ", (p*(1+(r/100))**t)-p)
```

```
Enter Principal: 1000
Enter rate of interest per annum: 10
Enter time unit in years: 2
Compund Interest:  210.00000000000023
```

13. Convert days into years

```
# let 1yr = 365d
print("Number of Years: ", float(input("Enter number of days: "))/365)
```

```
Enter number of days: 182.5
Number of Years:  0.5
```

14. Fahrenheit to Celsius conversion

```
print("Celsius: ", ((float(input("Enter temp in Fahreinheit: "))-32)*5/9))
```

```
Enter temp in Fahreinheit: 212.00
Celsius:  100.0
```

```
1
```