1. WAP to calculate the % of student based on marks of any 5 subjects.

```
S1 = float (input ("Enter marks for subject 1: "))
S2 = float (input ("Enter marks for subject 2: "))
S3 = float (input ("Enter marks for subject 3: "))
S4 = float (input ("Enter marks for subject 4: "))
S5 = float (input ("Enter marks for subject 5: "))

total = S1 + S2 + S3 + S4 + S5
percentage = (total / 500) * 100
print (" total_percentage:" ,  "%")
```

2. WAP to calculate the area of rectangle based on length and breadth.

```
length=float (input ("Enter the length of rectangle:"))
breadth=float (input ("Enter the breadth of rectangle:"))
Area = length * breadth
Print ("Area of the rectangle", Area)
```

3.WAP to find quotient and remainder of 2 numbers.

```
num1=int (input ("Enter the numenator:"))
num2=int (input ("Enter the denominator:"))
Quotient=num1//num2
Remainder=num1%num2
print(f"{Quotient}")
print(f"{Remainder}")
```

4. WAP to calculate simple interest.

```
PV=float (input ("Enter the principle value:"))
T=float (input ("Enter the time:"))
ROI=float (input ("Enter the rate of interest:"))
simple_interest = (PV*T*ROI / 100)
print(f"{simple_interest}")
```

5. WAP to calculate the compound interest.

```
PV=float (input ("Enter the principle value:"))
T=float (input ("Enter the time:"))
ROI=float (input ("Enter the rate of interest:"))
Compound_interest = PV*(1+ROI/100) ** T- PV
print(f"{Compound_interest}")
```

6. WAP to input 2 angles from user and find 3rd angle of triangle.

```
angle1=float (input ("Enter first angle:"))
angle2=float (input ("Enter second angle:"))
Third_angle = 180- (angle1+angle2)
print (f"{Third_angle}")
```

7.WAP to find the roots of quadratic equation.

```
import math
a = float (input ("Enter a: "))
b = float (input ("Enter b: "))
c = float (input ("Enter c: "))
d = b**2 - 4*a*c
if d > 0:
    root1 = (-b + math.sqrt (d)) / (2*a)
    root2 = (-b - math.sqrt (d)) / (2*a)
```

```
        print ("Roots are:", root1, "and", root2)
    elif d == 0:
        root = -b / (2*a)
        print ("Root is:", root)
    else:
        print ("No real roots, roots are complex")
```

8. WAP to convert days into years, weeks and days.

```
days=int (input ("Enter total number of days:"))
years= days/365
remaining_days = days % 365
weeks= days/7
days= remaining_days % 7
print(f"{days} days = {years} years, {weeks} weeks, and {days} days")
```

9. WAP to find area of triangle.

```
B=float (input ("Enter the base of triangle:"))
H=float (input ("Enter the height of triangle:"))
Area= (1/2 * B * H)
print ("Area of triangle:", Area)
```

10. WAP to calculate the area of equilateral triangle.

```
import math
SL=int (input ("Enter the side length:"))
Area = (math.sqrt (3) /4) * (SL**2)
print ("Area of equilateral triangle:", Area)
```

11. WAP to find area and circumference of circle.

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

12. WAP to find the volume of sphere.

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