

1. Write a Python program to take two numbers as input from the user and display their sum.

```
#Addition of two Numbers Using
#user Input

num1=int(input("Enter the 1st Number"))
num2=int(input("Enter the 2nd Number" ))
Add=num1+num2
print("The Addition of 2 numbers",Add)
```

```
Enter the 1st Number10
Enter the 2nd Number20
The Addition of 2 numbers 30
```

2. Calculate and print the midpoint of two numbers entered by the user.

```
#Midpoint of Two numbers
num1=int(input("enter the 1st num:"))
num2=int(input("enter the 2nd num:"))
MidPnt=(num1+num2)/2
print("midpoint of two num:",MidPnt)
```

```
enter the 1st num:10
enter the 2nd num:20
midpoint of two num: 15.0
```

3. Write a Python program to calculate the area of a triangle using the formula: $\text{area} = 0.5 * \text{base} * \text{height}$.

```
# Calculate the area of Triangle
# area = 0.5 * base * height.
Base=int(input("Enter base:"))
Height=int(input("Enter height:"))
area=0.5*Base*Height
print("Area of tringle is:",area)
```

```
Enter base:15
Enter height12
Area of tringle is: 90.0
```

4. Take three numbers as input from the user and display their product.

```
#Take User input and
#display the product
num1=int(input("Enter the 1 Number:"))
num2=int(input("Enter the 2 Number:"))
num3=int(input("Enter the 3 number:"))
print(num1,num2,num3)
```

```
Enter the 1 Number:15
Enter the 2 Number:15
Enter the 3 number:23
15 15 23
```

- 5.Take a number as input and display its square and cube.

```
#Calculate the Square and Cube
num1=int(input("enter the num:"))
square=num1**2
cube=num1**3
print("square of num:",square)
print("Cube of num:",cube)
```

```
enter the num:4
square of num: 16
Cube of num: 64
```

6. Take two numbers as input and display their quotient and remainder.

```
#Calculate quotient and remainder.
num1=int(input("Enter the 1 number:"))
num2=int(input("Enter the 2 number:"))
print("Quotient:",num1//num2)
print("Reminder:",num1%num2)
```

```
Enter the 1 number:2
Enter the 2 number:4
Quotient: 0
Reminder: 2
```

7. Take three numbers as input and display their average.

```
# Average of 3 values
a= 2
b= 3
c= 1
avg=(a+b+c)/3
print("Average Value:",avg)
```

```
Average Value: 2.0
```

8. Write a Python program to calculate the area of a rectangle using the formula: area = length * width.

```
#Calculate the area of
#a rectangle
# area = length * width.
length=int(input("Enter the length:"))
width=int(input("Enter the width:"))
area=length*width
print("Area of rectangle:",area)
```

```
Enter the length:15
Enter the width:13
Area of rectangle: 195
```

9. Take five numbers as input representing marks obtained and total marks. Display the percentage.

```
#Get total marks and Percentage
#from 5 subjects
m1=int(input("Enter M1="))
m2=int(input("Enter M2="))
m3=int(input("Enter M3="))
m4=int(input("Enter M4="))
m5=int(input("Enter M5="))
Total_marks=m1+m2+m3+m4+m5
Per=(Total_marks/500)*100
print("Total marks:",Total_marks)
print("Perecntage:",Per)
```

```
Enter M1=20
Enter M2=85
Enter M3=46
Enter M4=96
Enter M5=75
Total marks: 322
Perecntage: 64.4
```

10. Write a Python program to swap two numbers entered by the user without using a third variable.

```
#Swap two numbers
a=10
b=20
print("a and b",a,b)
#Swap it
a,b=b,a
print("Swap a nd b:",a,b)
```

```
a and b 10 20
Swap a and b: 20 10
```

11. Take a number as input and check whether it is even or odd.

```
# Check number Even or Odd
num=int(input("Enter the number:"))
if num%2==0:
    print("Number is Even")
else:
    print("Number is Odd")
```

```
Enter the number:6
Number is Even
```

12. Write a Python program to convert temperature from Celsius to Fahrenheit using the formula: $F = (C \times 9/5) + 32$.

```
Celsius=int(input("Enter the Celsius : "))
Fahrenheit=Celsius * 9/5 + 32
print("The Fahrenheit is : ",Fahrenheit)
```

```
Enter the Celsius : 45
The Fahrenheit is : 113.0
```

13. Write a Python program to convert temperature from Fahrenheit to Celsius using the formula: $C = (F - 32) \times 5/9$.

```
Fahrenheit=float(input("Enter the Celsius : "))
Celsius=Fahrenheit - 32 * 5/9
print("The Celsius is : ",Celsius)
```

```
Enter the Celsius : 113.0
The Celsius is : 95.22222222222223
```

14. Take two numbers as input and find their greatest common divisor (GCD).

15. Write a Python program to calculate the simple interest using the formula: $SI = (P \times R \times T) / 100$, where P is the principal amount, R is the rate of interest, and T is the time in years.

```
Principal_amount=int(input("enter the Principal_amount : "))
Rate_Interest=int(input("enter the Rate_Interest : "))
Time=int(input("enter the Time : "))
Simple_Interest=(Principal_amount*Rate_Interest*Time)/100
print("The Simple Interest : ",Simple_Interest)
```

```
enter the Principal_amount : 1200000
enter the Rate_Interest : 5
enter the Time : 10
The Simple Interest : 600000.0
```

16. Write a Python program to check whether a number is positive, negative, or zero.

```
num=int(input("Enter the Number : "))
if num>0:
    print("Number is positive")
elif num<0:
    print("Number is Negative")
else:
    print("Number is Zero")
```

```
Enter the Number : 0
Number is Zero
```

17. Write a Python program to find the largest among three numbers entered by the user.

```

num1=int(input("Enter the 1st number : "))
num2=int(input("Enter the 2nd number : "))
num3=int(input("Enter the 3rd number : "))
if num1 >= num2 or num1 >= num3:
    print("1st Number is Greater",num1)
elif num2 >= num1 or num2 >= num3:
    print("2nd Number is Greater",num2)
else:
    print("3rd Number is greater",num3)

# a = int(input("Enter first number: "))
# b = int(input("Enter second number: "))
# c = int(input("Enter third number: "))

# # Find the largest number
# if a >= b and a >= c:
#     print("The largest number is:", a)
# elif b >= a and b >= c:
#     print("The largest number is:", b)
# else:
#     print("The largest number is:", c)

```

```

Enter the 1st number : 200
Enter the 2nd number : 500
Enter the 3rd number : 100
1st Number is Greater 200

```

18. Take a number as input and check whether it is a multiple of 5.

```

num=int(input("Enter the number:"))
if num%5==0:
    print("The number is multiple of 5")
else:
    print("The number is not multiple of 5")

```

```

Enter the number:7
The number is not multiple of 5

```

19. Write a Python program to calculate the perimeter of a circle using the formula: $\text{perimeter} = 2 * \pi * \text{radius}$.

```

radius=float(input("Enter the radius:"))
pie=3.14
perimeter=2*pie*radius
print("perimeter of circle is : ",perimeter)

```

```

Enter the radius:6.3
perimeter of circle is : 39.564

```

20. Write a Python program to check whether a number is divisible by both 3 and 5.

```

num=int(input("Enter the number:"))
if num%3==0 and num%5==0:
    print("The number is divisible by 3 and 5")
else:
    print("The number is not divisible by 3 and 5")

```

```

Enter the number:9
The number is not divisible by 3 and 5

```

