1. **Program to add 2 numbers**

**adding predefined numbers**

**num1=10**

**num2=20**

**num3=num1+num2**

**num3**

**print("sum of 2 no is",num3)**

**Adding numbers using user input**

**num1 = float(input("enter the first number"))**

**num2 =float(input ("enter the second number"))**

**sum = num1 + num2**

**print("the sum of the numbers are:",sum)**

enter the first number 10

enter the second number 20

the sum of the numbers are: 30.0

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**2.Hello World**

**print("hello word")**

**txt =input("enter the text to display")**

**print("The text you entered is :", txt)**

**enter the text to display hello welcome**

**The text you entered is : hello welcome**

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**3.square root**

**num=100**

**sr=num\*\*(1/2)**

**sr**

**10**

**num=int(input("enter the no"))**

**sr=num\*\*(1/2)**

**print("The square root of the given no is",sr)**

enter the no 81

The square root of the given no is 9.0

**import math**

**num=int(input("enter the number"))**

**sr=math.sqrt(num)**

**print("the square root of given number is:",sr)**

enter the number 121

the square root of given number is: 11.0

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**4.Area of triangle**

**height =float(input("enter the height"))**

**base=float(input("enter the base"))**

**area=height\*base\*(0.5)**

**print("The Area of triangle is ",area)**

enter the height 10

enter the base 10

The Area of triangle is 50.0

**5. swap two variable using third variable**

**X=13**

**Y=12**

**Temp =x=13**

**X=y=12**

**Y=temp=13**

**x=["hello"]**

**y=["shwetha"]**

**temp=x**

**x=y**

**y=temp**

**print(y)**

**print(x)**

['hello']

['shwetha']

**Swap without using third variable**

**================================================================**

**x=10**

**y=20**

**(x,y)=(y,x)**

**print("the value of x",x)**

**print("the value of y",y)**

the value of x 20

the value of y 10

**6. convert km to miles**

**1km=0.621 mile**

**Miles=5\*0.621**

**km=float(input("enter the value in km :"))**

**miles=(0.621371)\*km**

**print("km to miles is",miles)**

enter the value in km : 10

km to miles is 6.21371

**---------------------------------------------------------------------------------------------------------7.check the number is +ve or \_ve or zero**

**num=float(input("enter the number:"))**

**if(num>0):**

**print("positive")**

**elif num == 0:**

**print("zero")**

**else:**

**print("negative")**

enter the number: 5678

positive

**8. number is leap year or not**

**year=int(input("enter a number"))**

**if (year % 400 == 0) and (year % 100 == 0):**

**print("The year is leap year")**

**elif (year % 4 == 0) and (year % 100 != 0):**

**print("the year is leap year")**

**else:**

**print("the year is not a leap yaer")**

enter a number 2024

the year is leap year

enter a number 2023

the year is not a leap yaer

**================================================================9. Number is odd or even**

**x=int(input("enter a number"))**

**if x%2 ==0:**

**print("even")**

**else:**

**print("odd")**

enter a number 2

even

enter a number 3

odd

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