

▼ Python Program to Add Two Numbers getting through keyboa

```
num1 = int(input("Enter first no: "))
num2 = int(input("Enter second no: "))
sum = num1 + num2
print('The sum of {0} and {1} is {2}'.format(num1, num2, sum))
```

```
☞ Enter first no: 5
   Enter second no: 6
   The sum of 5 and 6 is 11
```

▼ Python program to check if the input year is a leap year or not

```
year = int(input("Enter a year: "))

if ((year % 4) == 0 and (year % 100) != 0) or ((year % 400) == 0):
    print("{0} is a leap year".format(year))
else:
    print("{0} is not a leap year".format(year))
```

```
☞ Enter a year: 2019
   2019 is not a leap year
```

▼ Python Program to Generate a Random Number

```
import random
print(random.randint(0,9))
```

```
☞ 8
```

▼ Python Program to Convert Kilometers to Miles

```

kilometers = int(input("Enter value in kilometers"))
conv_fac = 0.621371
miles = kilometers * conv_fac
print('%0.3f kilometers is equal to %0.3f miles' %(kilometers,miles))

```

```

❏ Enter value in kilometers10
10.000 kilometers is equal to 6.214 miles

```

▼ Python Program to Solve Quadratic Equation

```

import cmath
a = float(input('Enter a: '))
b = float(input('Enter b: '))
c = float(input('Enter c: '))
d = (b**2) - (4*a*c)
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)

print('The solution are {0} and {1}'.format(sol1,sol2))

```

```

❏ Enter a: 5
Enter b: 3
Enter c: 5
The solution are (-0.3-0.9539392014169457j) and (-0.3+0.9539392014169457j)

```

▼ Python Program to find prime or not using function

```

def test_prime(n):
    if (n==1):
        return False
    elif (n==2):
        return True;
    else:
        for x in range(2,n):
            if(n % x==0):
                return False
        return True
no=int(input("Enter the number"))
if (test_prime(no)) is True :
    print(" {0} is a prime no".format(no))
else:
    print(" {0} is not a prime no".format(no))

```

```
Enter the number2
2 is a prime no
```

▼ Calculator program

```
loop = 1
choice = 0

def add(a,b):
    return a+b
def sub(a,b):
    return a-b
def mul(a,b):
    return a*b
def div(a,b):
    return a/b

while loop == 1:
    print ("Welcome to calculator.py")
    print ("your options are:")
    print ("")
    print("1) Addition")
    print("2) Subtraction")
    print("3) Multiplication")
    print("4) Division")
    print("5) Quit calculator.py")
    print("")
    try:
        choice = int(input("Choose your option: "))
    except:
        print('please enter a valid number for option')
        print("")
    print("")
    if choice == 1:
        x = int(input(" Enter 1st no: "))
        y = int(input("Enter 2nd no: "))
        print("The answer is ",add(x,y))

    elif choice == 2:
        x = int(input("Enter 1st no: "))
        y = int(input("Enter 2nd no: "))
        print("answer is ",sub(x,y))

    elif choice == 3:
        x = int(input("Enter 1st no: "))
```

```
y = int(input("Enter 2nd no: "))
print("answer is ",mul(x,y))

elif choice == 4:
    x = int(input("Enter 1st no: "))
    y = int(input("Enter 2nd no: "))
    print("answer is ",div(x,y))

elif choice == 5:
    loop = 0

else:
    print("please choice a valid option from 1 to 5")
    choice=0
print ("Thank-you for using calculator.py!")
```



Welcome to calculator.py
your options are:

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Quit calculator.py

Choose your option: 1

Enter 1st no: 5
Enter 2nd no: 6
The answer is 11
Welcome to calculator.py
your options are:

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Quit calculator.py

Choose your option: 2

Enter 1st no: 11
Enter 2nd no: 5
answer is 6
Welcome to calculator.py
your options are:

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Quit calculator.py

Choose your option: 3

Enter 1st no: 5
Enter 2nd no: 3
answer is 15
Welcome to calculator.py
your options are:

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Quit calculator.py

Choose your option: 4

Enter 1st no: 16
Enter 2nd no: 4
answer is 4.0
Welcome to calculator.py

your options are:

- 1) Addition
- 2) Subtraction
- 3) Multiplication
- 4) Division
- 5) Quit calculator.py

Choose your option: 5

Thank-you for using calculator.py!