**TASK2-CALCULATOR**

**PROJECT TITLE:**

**Basic Arithmetic Operations  
  
DESCRIPTION:  
 This project implements a simple command-line calculator for performing fundamental arithmetic operations such as addition, subtraction, multiplication, division, modulus, exponentiation, and floor division.  
  
FEATURES:  
1.Presents a menu-driven interface using a while loop.  
2.Takes user input for two numbers and an operation choice.  
3.Handles division by zero.  
4.Modular design with separate functions for each operation.  
  
TECHNOLOGIES USED:  
1.Python (Standard Library)  
  
TARGET USERS:  
 1.Beginners in Python programming or mathematics.  
 2.Educational tools or small console-based utilities.**

**APPENDIX:**

**def add(a,b):**

**return a+b**

**def sub(a,b):**

**return a-b**

**def div(a,b):**

**return a/b**

**def mul(a,b):**

**return a\*b**

**def exp(a,b):**

**return a\*\*b**

**def mod(a,b):**

**return a%b**

**def floorDiv(a,b):**

**return a//b**

**def main():**

**while True:**

**print("\*\*\*\*\*\*\*\*\*\*\*\*Basic Arithmetic Operations\*\*\*\*\*\*\*\*\*\*\*\*\*\*")**

**print("1.Add Two Numbers")**

**print("2.Substract Two Numbers")**

**print("3.Multiply Two Numbers")**

**print("4.Divide Two Numbers")**

**print("5.Floor Divide Two Numbers")**

**print("6.Exponentiation of Two Numbers")**

**print("7.Modulus of Two Numbers.")**

**choice=int(input("Enter Your Choice(1-7):"))**

**if choice==1:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Addition is :",add(a,b))**

**elif choice==2:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Substraction is :",sub(a,b))**

**elif choice==3:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Multiplication is :",mul(a,b))**

**elif choice==4:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**if b==0:**

**print("Number can't be divided by Zero!!")**

**else:**

**print("The Division is :",div(a,b))**

**elif choice==5:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Floor Division is :",floorDiv(a,b))**

**elif choice==6:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Exponentiation is :",exp(a,b))**

**elif choice==7:**

**a=int(input("Enter No1:"))**

**b=int(input("Enter No2:"))**

**print("The Modulus is :",mod(a,b))**

**else:**

**print("Please Enter a Number between 1 to 7.")**

**if \_\_name\_\_=="\_\_main\_\_":**

**main()**

**OUTPUTS:**

**\*\*\*\*\*\*\*\*\*\*\*\*Basic Arithmetic Operations\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**1.Add Two Numbers**

**2.Substract Two Numbers**

**3.Multiply Two Numbers**

**4.Divide Two Numbers**

**5.Floor Divide Two Numbers**

**6.Exponentiation of Two Numbers**

**7.Modulus of Two Numbers.**

**Enter Your Choice(1-7):1**

**Enter No1:23**

**Enter No2:34**

**The Addition is : 57**

**\*\*\*\*\*\*\*\*\*\*\*\*Basic Arithmetic Operations\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**1.Add Two Numbers**

**2.Substract Two Numbers**

**3.Multiply Two Numbers**

**4.Divide Two Numbers**

**5.Floor Divide Two Numbers**

**6.Exponentiation of Two Numbers**

**7.Modulus of Two Numbers.**

**Enter Your Choice(1-7):2**

**Enter No1:34**

**Enter No2:2**

**The Substraction is : 32**

**\*\*\*\*\*\*\*\*\*\*\*\*Basic Arithmetic Operations\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**1.Add Two Numbers**

**2.Substract Two Numbers**

**3.Multiply Two Numbers**

**4.Divide Two Numbers**

**5.Floor Divide Two Numbers**

**6.Exponentiation of Two Numbers**

**7.Modulus of Two Numbers.**

**Enter Your Choice(1-7):3**

**Enter No1:2**

**Enter No2:3**

**The Multiplication is : 6**