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:

```python
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")
```

```python
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:"))
```

```python
        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