

1. Python Program to Create a Class which Performs Basic Calculator Operations

Code:

```
class cal():  
    def __init__(self,a,b):  
        self.a=a  
        self.b=b  
    def add(self):  
        return self.a+self.b  
    def mul(self):  
        return self.a*self.b  
    def div(self):  
        return self.a/self.b  
    def sub(self):  
        return self.a-self.b  
a=int(input("Enter first number: "))  
b=int(input("Enter second number: "))  
obj=cal(a,b)  
choice=1  
while choice!=0:  
    print("0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division")  
    choice=int(input("Enter choice: "))  
    if choice==1:  
        print("Result: ",obj.add())  
    elif choice==2:  
        print("Result: ",obj.sub())  
    elif choice==3:
```

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        print("Result: ",obj.mul())
elif choice==4:
    print("Result: ",round(obj.div(),2))
elif choice==0:
    print("Exiting!")
else:
    print("Invalid choice!!")
print()

```

Output:

```

9 - class cal():
10 -     def __init__(self,a,b):
11 -         self.a=a
12 -         self.b=b
13 -     def add(self):
14 -         return self.a+self.b
15 -     def mul(self):
16 -         return self.a*self.b
17 -     def div(self):
18 -         return self.a/self.b
19 -     def sub(self):

```

```

Enter first number: 3
Enter second number: 6
0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division
Enter choice: 1
Result: 9
0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division
Enter choice: 2
Result: -3
0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division
Enter choice: 3
Result: 18
0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division
Enter choice: 4
Result: 0.5
0. Exit 1. Add 2. Subtraction 3. Multiplication 4. Division
Enter choice: 0
Exiting!

...Program finished with exit code 0
Press ENTER to exit console

```