***ASSIGNMENT-3***

**Question-1:**

**Solution:**

**CODE**

class calculator:

def \_\_init\_\_(self, a, b):

self.a = a

self.b = b

def add(self):

return self.a + self.b

def sub(self):

return self.a - self.b

def multiply(self):

return self.a \* self.b

def float\_divide(self):

return self.a / self.b

def floor\_divide(self):

return self.a // self.b

def display(self):

print(f"a={self.a}, b={self.b}")

a = int(input("Enter first number: "))

b = int(input("Enter second number: "))

ob = calculator(a, b)

ob.display()

print("The Sum:", ob.add())

print("The Difference:", ob.sub())

print("The Product:", ob.multiply())

print("The Float Division:", ob.float\_divide())

print("The Floor Division:", ob.floor\_divide())

***OUTPUT:***

Enter first number: 30

Enter second number: 60

a=30, b=60

The Sum: 90

The Difference: -30

The Product: 1800

The Float Division: 0.5

The Floor Division: 0

**Question-2:**

**Solution:**

**CODE**

def swap():

global a

global b

a, b = b, a

a = int(input("Enter first number: "))

b = int(input("Enter second number: "))

print("Original values:")

print(f"a={a}, b={b}")

swap()

print("Swapped values:")

print(f"a={a}, b={b}")

**OUTPUT:**

Enter first number: 40

Enter second number: 25

Original values:

a=40, b=25

Swapped values:

a=25, b=40