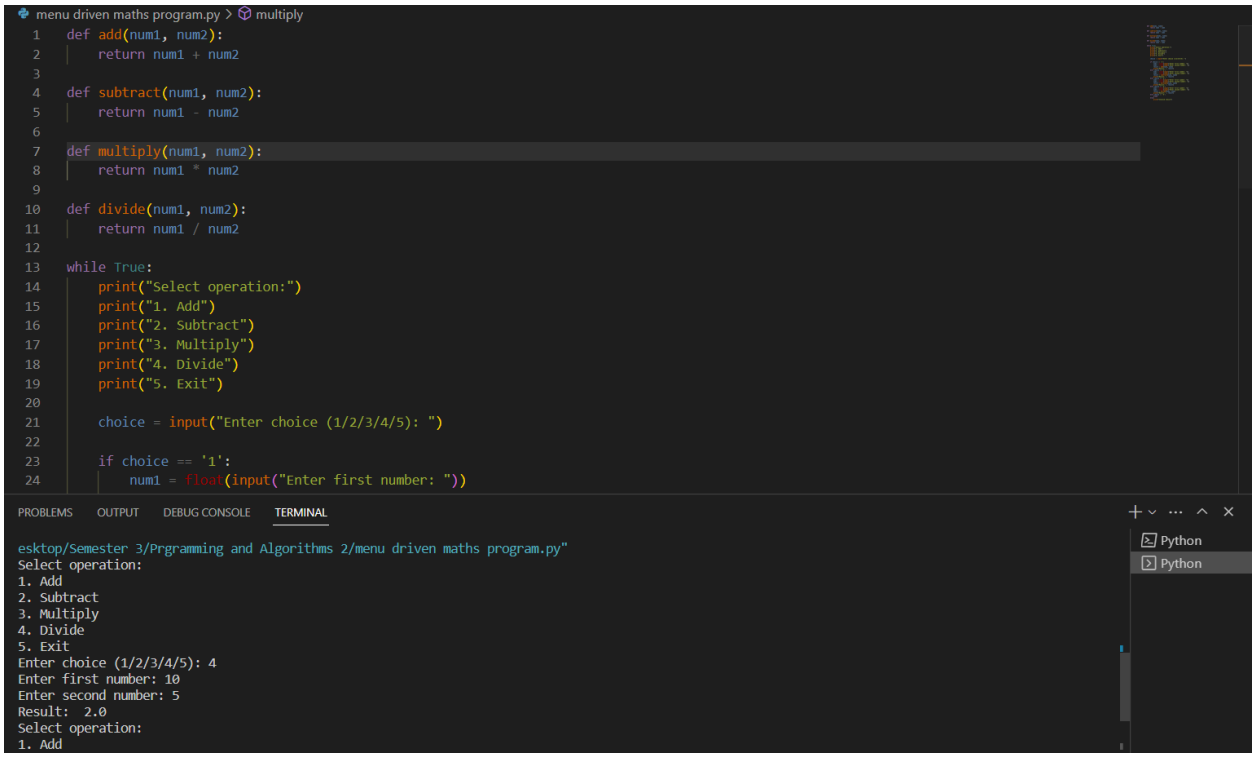
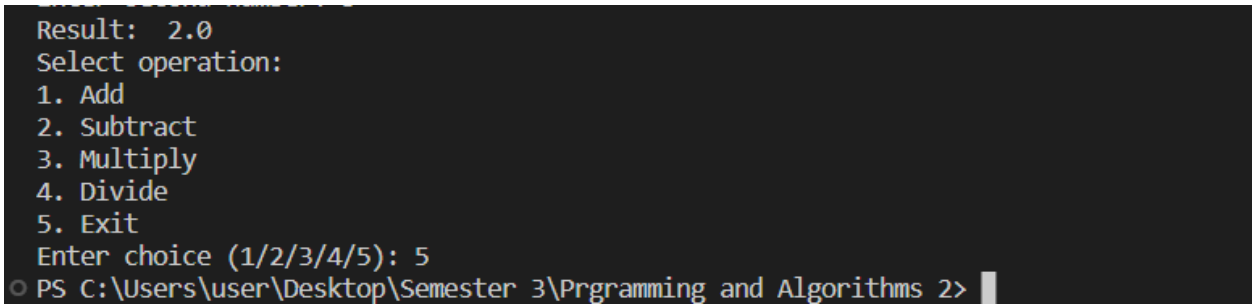
Abhiyan Dahal

Student ID: 220107

1. **1)Write a menu driven program for addition, subtraction, multiplication and division using function and case statements.**





2. Write a menu driven program for finding maximum and minimum between any two numbers; maximum and minimum among three numbers.

Maximum and minimum between two numbers:

maximum.py > ...

```python
def maximum(num1, num2):
    if num1 > num2:
        return num1
    else:
        return num2

def minimum(num1, num2):
    if num1 < num2:
        return num1
    else:
        return num2

num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))

while True:

    print("Select operation:")
    print("1. Find maximum")
    print("2. Find minimum")
    print("3. Exit")

    choice = input("Enter choice (1/2/3): ")

```

```python
if choice == '1':
    result = maximum(num1, num2)
    print("Maximum: ", result)
elif choice == '2':
    result = minimum(num1, num2)
    print("Minimum: ", result)
elif choice == '3':
    break
else:
    print("Invalid choice")
```

```
PS C:\Users\user\Desktop\Semester 3\Prgramming and Algorithms 2> & C:/Users/user/AppData/Local/Programs/Python/Python310/python.exe "c:/Use
Enter first number: 88
Enter second number: 77
Select operation:
1. Find maximum
2. Find minimum
3. Exit
Enter choice (1/2/3): 1
Maximum:  88.0
Select operation:
1. Find maximum
2. Find minimum
```

```
Enter choice (1/2/3): 2
Minimum:  77.0
Select operation:
1. Find maximum
2. Find minimum
3. Exit
Enter choice (1/2/3): 3
PS C:\Users\user\Desktop\Semester 3\Prgramming and Algorithms 2>
```

Maximum and minimum between three numbers:

maximum and minimum in three numbers.py > maximum

```python
def maximum(num1, num2, num3):
    if num1 > num2 and num1 > num3:
        return num1
    elif num2 > num1 and num2 > num3:
        return num2
    else:
        return num3

def minimum(num1, num2, num3):
    if num1 < num2 and num1 < num3:
        return num1
    elif num2 < num1 and num2 < num3:
        return num2
    else:
        return num3

num1 = float(input("Enter first number: "))
num2 = float(input("Enter second number: "))
num3 = float(input("Enter third number: "))

while True:
    print("Select option:")
    print("1. Maximum")
    print("2. Minimum")
    print("3. Exit")

    choice = input("Enter choice (1/2/3): ")
    if choice == '1':
        result = maximum(num1, num2, num3)
        print("Maximum: ", result)
    elif choice == '2':
        result = minimum(num1, num2, num3)
        print("Minimum: ", result)
    elif choice == '3':
        break
    else:
        print("Invalid option")
```

```
PS C:\Users\user\Desktop\Semester 3\Prgramming and Algorithms 2> & C:/Users/user/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/user/Desktop/Semester 3
/Prgramming and Algorithms 2/maximum and minimum in three numbers.py"
Enter first number: 6
Enter second number: 98
Enter third number: 112
Select option:
1. Maximum
2. Minimum
3. Exit
Enter choice (1/2/3): 2
Minimum:  6.0
Select option:
1. Maximum
```

```
1. Maximum
2. Minimum
3. Exit
Enter choice (1/2/3): 1
Maximum:  112.0
Select option:
1. Maximum
2. Minimum
3. Exit
Enter choice (1/2/3): 3
PS C:\Users\user\Desktop\Semester 3\Prgramming and Algorithms 2> & C:/Users/user/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/user/Desktop/Semester 3
/Prgramming and Algorithms 2/maximum and minimum in three numbers.py"
Enter first number:
```