In [2]:
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''' WAPP to make a simple calculator that can add, subtract, multiply, division,
    Floor division, Modulus division and Exponentiation by using functions.'''

# This function Adds two numbers.
def add(a,b):
    return a+b

# This function Subtract two numbers.
def sub(a,b):
    return a-b

# This function Multiply two numbers.
def mul(a,b):
    return a*b

# This function Division two numbers.
def div(a,b):
    return a/b

# This function Floor Division two numbers.
def floor_div(a,b):
    return a//b

# This function Modulus Division two numbers.
def modulus_div(a,b):
    return a%b

# This function Exponentiation of two numbers.
def expo(a,b):
    return a**b

print("Select Option:")
print("1.Addition")
print("2.Subtract")
print("3.Multiply")
print("4.Division")
print("5.Floor_Division")
print("6.Modulus_Division")
print("7.Exponentiation")

while True:
    # Take input from the user
    choice = input("Enter the choice (1/2/3/4/5/6/7)")

    # check if choice is one of the seven options.
    if choice in ('1','2','3','4','5','6','7'):

        # Ask the user to entr the a and b values.
        a=int(input("Enter a value:"))
        b=int(input("Enter b value:"))

        # check if choice is one, then perform addition.
        if choice == '1':
            print("Addition of ({} + {}) = {}".format(a,b,a+b))

        # check if choice is two, then perform subtraction.
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        elif choice == '2':
            print("Subtraction of ({} - {}) = {}".format(a,b,a-b))

        # check if choice is three, then perform multiplication.
        elif choice == '3':
            print("Multiplication of ({} x {}) = {}".format(a,b,a*b))

        # check if choice is four, then perform division.
        elif choice == '4':
            print("Division of ({} / {}) = {}".format(a,b,a/b))

        # check if choice is five, then perform  floor division.
        elif choice == '5':
            print("Floor Division of ({} // {}) = {}".format(a,b,a//b))

        # check if choice is six, then perform modulus division.
        elif choice == '6':
            print("Modulus Division of ({} % {}) = {}".format(a,b,a%b))

        # check if choice is seven, then perform exponentiation.
        elif choice == '7':
            print("Exponentiation of ({} ** {}) = {}".format(a,b,a**b))


        # check if user wants another calculation
        next_calculation = input("Let's do next calculation? (yes/no): ")

        # break the while loop if answer is no
        if next_calculation == "no":
            break

    # check if choice is not one of the seven options, then print "Invalid Input"
    else:
        print("Invalid Input")
```

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Select Option:
1.Addition
2.Subtract
3.Multiply
4.Division
5.Floor_Division
6.Modulus_Division
7.Exponentiation
Enter the choice (1/2/3/4/5/6/7)1
Enter a value:20
Enter b value:10
Addition of (20 + 10) = 30
Let's do next calculation? (yes/no): yes
Enter the choice (1/2/3/4/5/6/7)2
Enter a value:20
Enter b value:10
Subtraction of (20 - 10) = 10
Let's do next calculation? (yes/no): yes
Enter the choice (1/2/3/4/5/6/7)3
Enter a value:20
Enter b value:10
Multiplication of (20 x 10) = 200
Let's do next calculation? (yes/no): yes
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Enter the choice (1/2/3/4/5/6/7)4
Enter a value:20
Enter b value:4
Division of (20 / 4) = 5.0
Let's do next calculation? (yes/no): yes
Enter the choice (1/2/3/4/5/6/7)5
Enter a value:22
Enter b value:4
Floor Division of (22 // 4) = 5
Let's do next calculation? (yes/no): yes
Enter the choice (1/2/3/4/5/6/7)6
Enter a value:22
Enter b value:4
Modulus Division of (22 % 4) = 2
Let's do next calculation? (yes/no): yes
Enter the choice (1/2/3/4/5/6/7)7
Enter a value:4
Enter b value:3
Exponentiation of (4 ** 3) = 64
Let's do next calculation? (yes/no): no
```