

Group 5

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This is a program for basic calculator in python

Importing math function

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In [14]: import math
```

Declaring variable with intial value of zero

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In [15]: operation = 0
```

Making a while loop and another while loop inside it

```
In [16]: while operation != 7: # condition for user input
    operation = int(input("Chose the operation to be implied.\n
        \nEnter:1 for Addition\n
        \nEnter:2 for Subtraction\n
        \nEnter:3 for Multiplication\n
        \nEnter:4 for Division\n
        \nEnter:5 for Second power\n
        \nEnter:6 for Square root\n
        \nEnter:7 for Exit\n"))

    if operation == 5 or operation == 6 : # if statement
        num = int(input("Enter the Number: ")) # User input
    elif operation == 1 or operation == 2 or operation == 3 or operation == 4:
        num1 = int(input("Enter the first number: ")) # User input
        num2 = int(input("Enter the second number: ")) # User input
    elif operation == 7: # If user chooses to exit
        print("Goodbye")
    else: # For invalid input
        print("Invalid Input")

    while operation != 7: # condition for running the operation chosen by the user
        if operation == 1: # For Addition
            print("The sum of the two number is: ",num1 + num2)
            break
        elif operation == 2: # For Subtraction
            print("The subtraction of the two number is: ",num1 - num2)
            break
        elif operation == 3: # For Multiplication
            print("The product of the two number is: ",num1 * num2)
            break
        elif operation == 4: # For Division
            print("The division of the two number is: ",num1 / num2)
            break
        elif operation == 5: # For Second power
            print("The second power of the number is: ",num ** 2)
            break
        elif operation == 6: # For Square root
            print("The square root of the number is: ",math.sqrt(num))
            break
```

Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
1
Enter the first number: 12
Enter the second number: 3
The sum of the two number is: 15
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
2
Enter the first number: 12
Enter the second number: 4
The subtraction of the two number is: 8
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
3
Enter the first number: 11
Enter the second number: 3
The product of the two number is: 33
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
4
Enter the first number: 10
Enter the second number: 5
The division of the two number is: 2.0
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
5
Enter the Number: 5
The second power of the number is: 25
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
6
Enter the Number: 16
The square root of the number is: 4.0
Chose the operation to be implied.
Enter:1 for Addition
Enter:2 for Subtraction
Enter:3 for Multiplication
Enter:4 for Division
Enter:5 for Second power
Enter:6 for Square root
Enter:7 for Exit
7
Goodbye

```
In [ ]:
```