SESSION - 3
ARITHMETIC OPERATOR

Learning Outcomes:

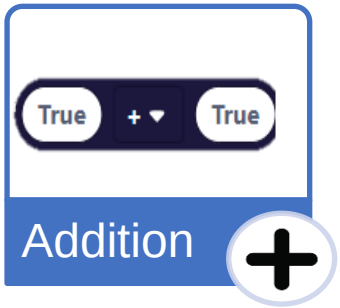
- **Remember**: The students will list different types of blocks being learnt in the session .
- **Understand**: - They will focus on understanding different arithmetic operators
- **Apply**: They will learn to apply and check the execution of the learnt operators
- **Analyze**: They will check their understanding by developing a code to check calculations
- **Create**: They will create the code in EduBlocks

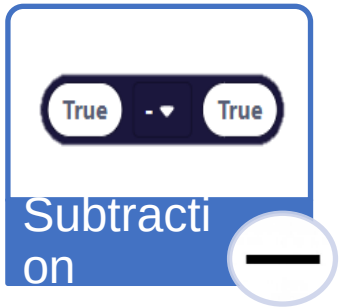
Remember & Understanding

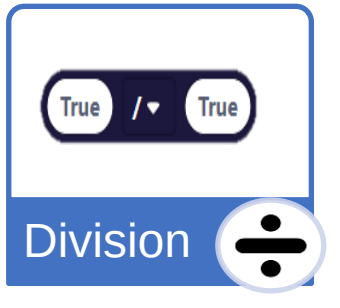
ARITHMETIC OPERATIONS

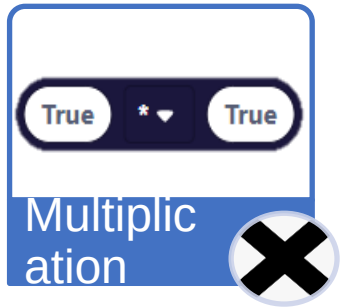
- Operators are special symbols in Python that carry out arithmetic or logical computation
- Arithmetic operators are used with numeric values to perform common mathematical operations:
  - Addition
  - Subtraction
  - Multiplication
  - Division
  - Modules

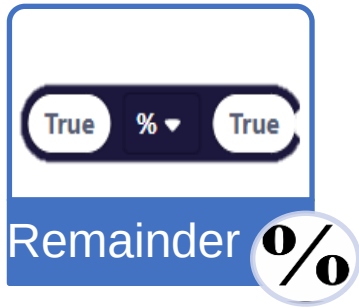
TYPES OF ARITHMETIC OPERATIONS









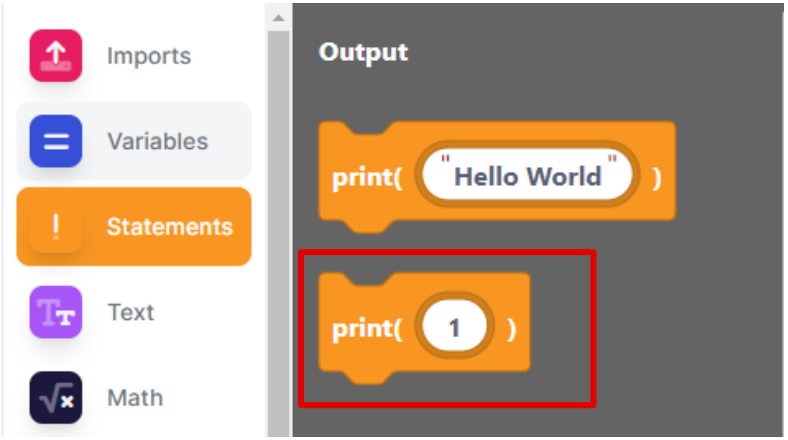


Apply & Create

TASK 01:-

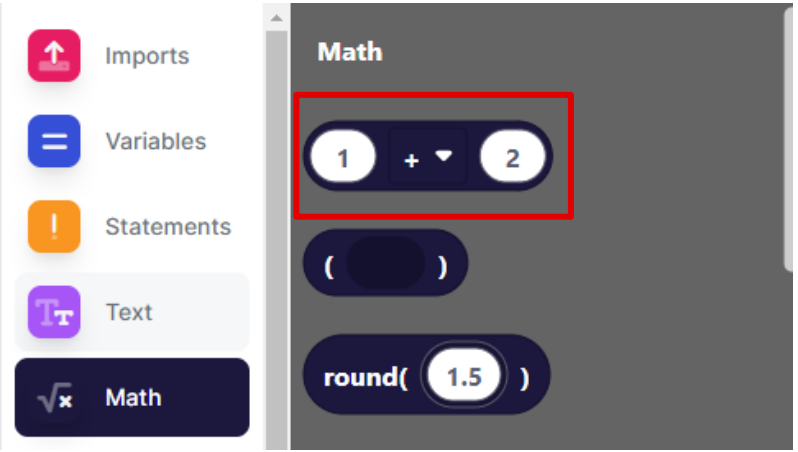
</> WRITE A PROGRAM TO SUM OF TWO DIGIT NUMBER

Program Step 1:-



For printing output take a print variable block

Program Step 2:-



Stack the print “Addition” block inside the print variable block to print

Code

```
1  #Start code here
2  print(1 + 2)
3
```

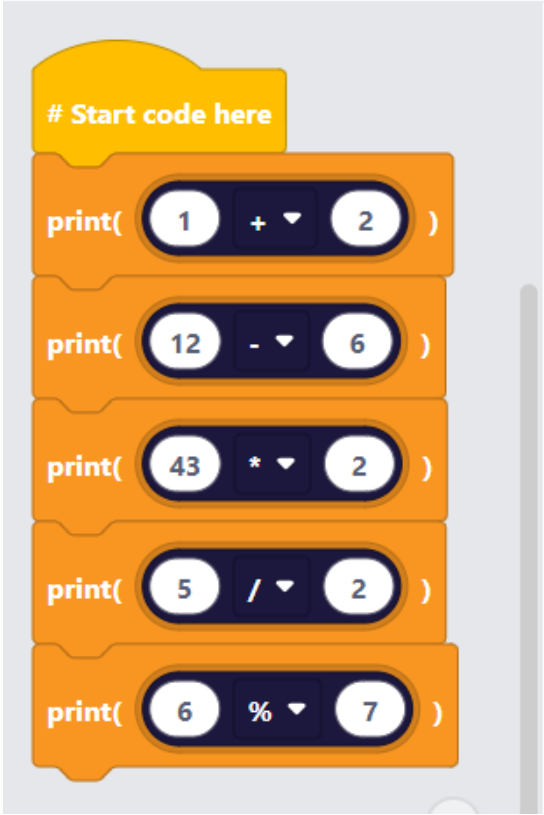
Program Step 3:-

Code

```
1  #Start code here
2  print(1 + 2)
3  print(12 - 6)
4  print(43 * 2)
5  print(5 / 2)
6  print(6 % 7)
7
```

The same way make the code for all the other three operations

Output



Code Output

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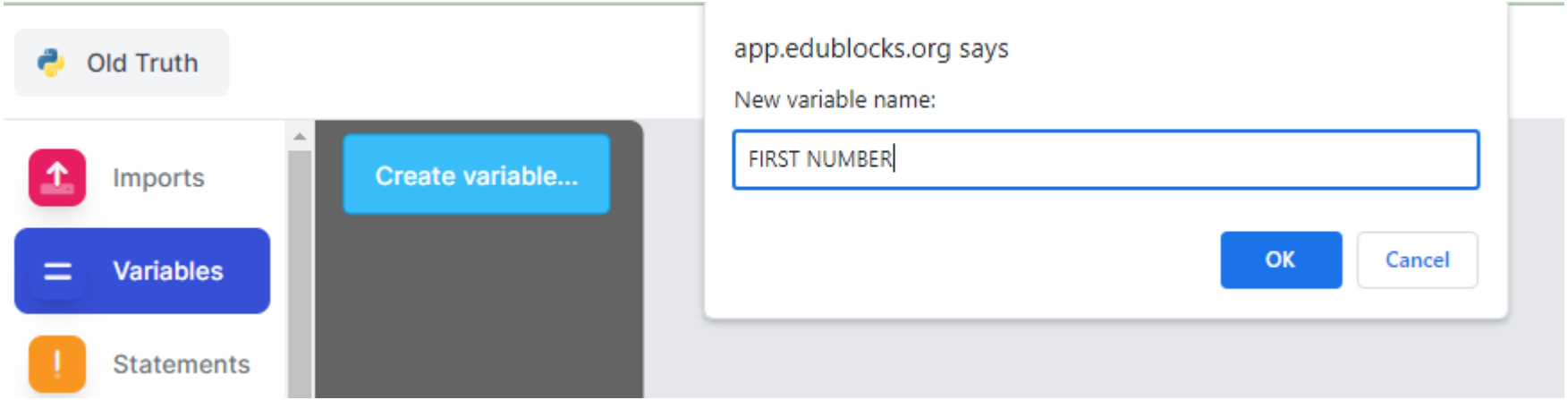
```
3
6
86
2.5
6
```

Apply & Create

TASK 02:-

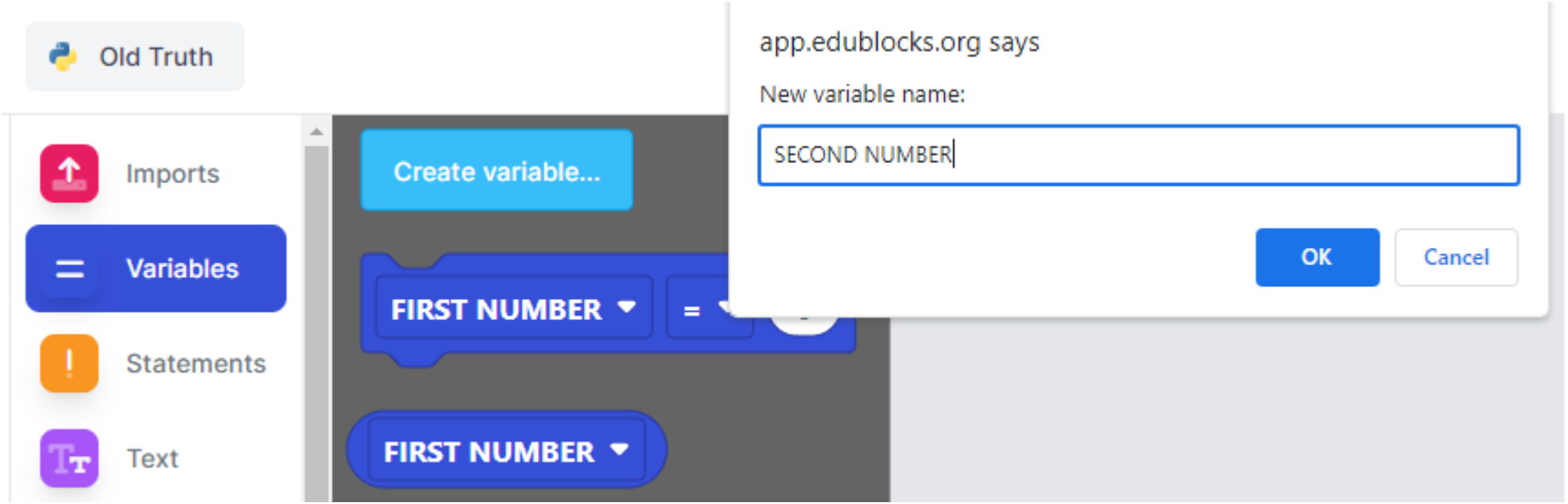
</> WRITE A PROGRAM SUM THE DIGITS OF THE GIVEN NUMBER

Program Step 1:-



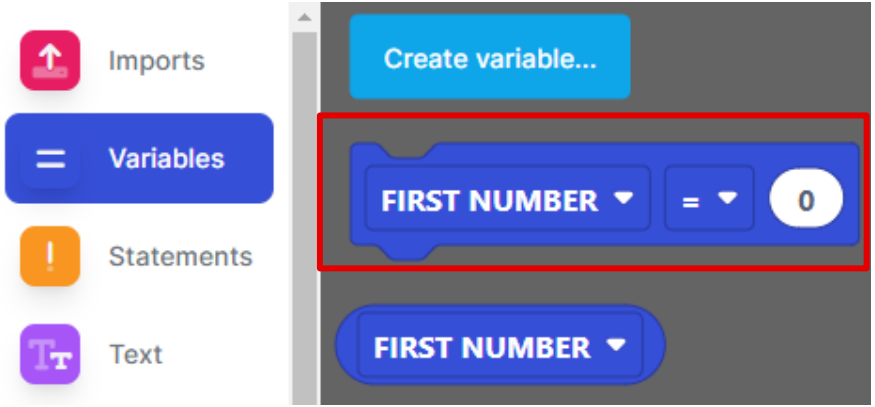
Create a variable name it as "FIRST NUMBER"

Program Step 2:-



Create a one more variable for Second number and name it as “SECOND NUMBER"

Program Step 3:-

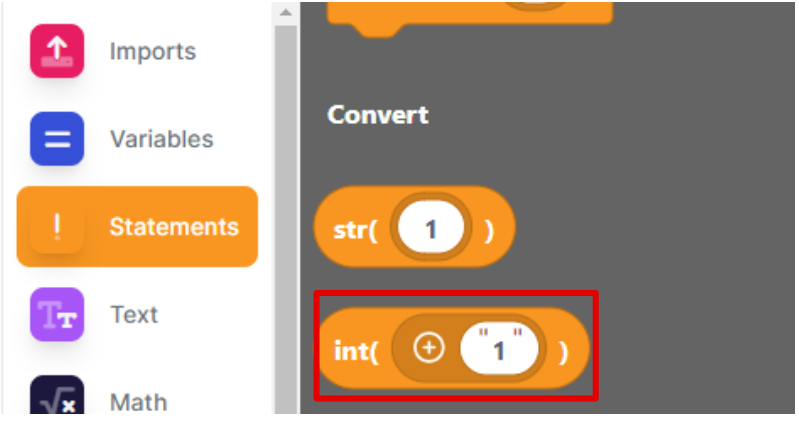


Initialize the “First number" variable

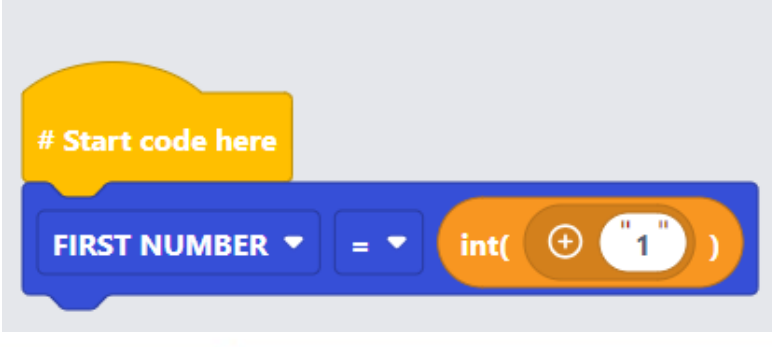
Code

```
1  #Start code here
2  FIRST_NUMBER = 0
3
```

Program Step 4:-



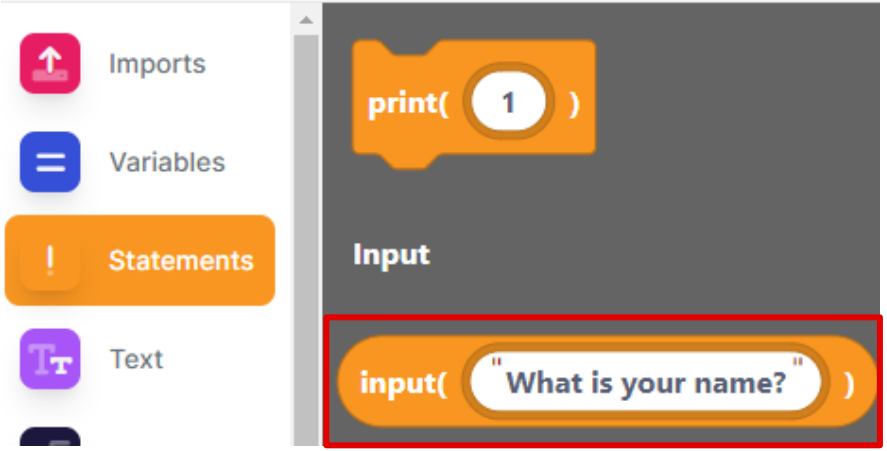
Store an int block to specify that input will be stored as an integer



Code

```
1  #Start code here
2  FIRST_NUMBER = int("1")
3
```

Program Step 5:-

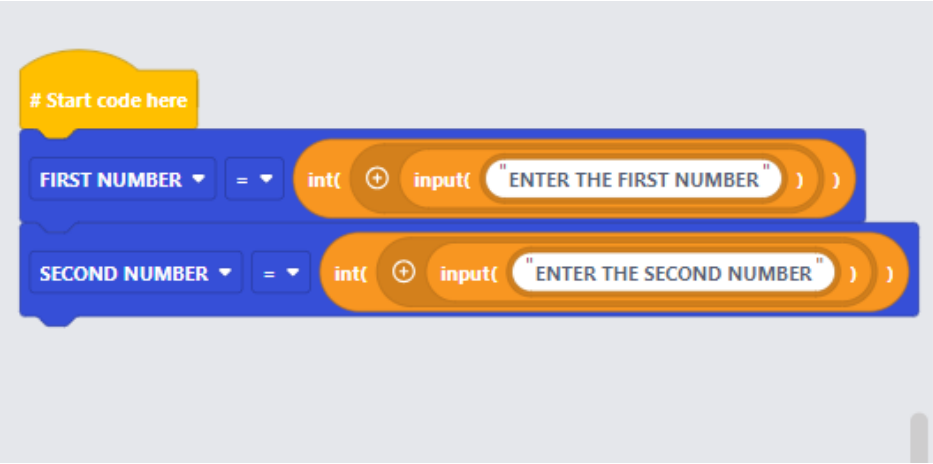


Add an input block to take input from the user

Code

```
1  #Start code here
2  FIRST_NUMBER = int(input("ENTER THE FIRST NUMBER"))
3
```

Program Step 6:-

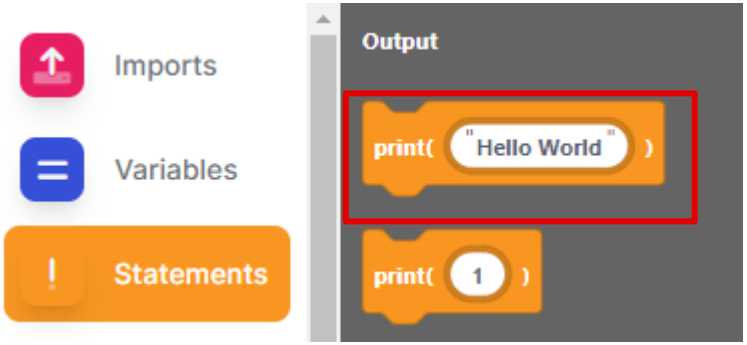


Code

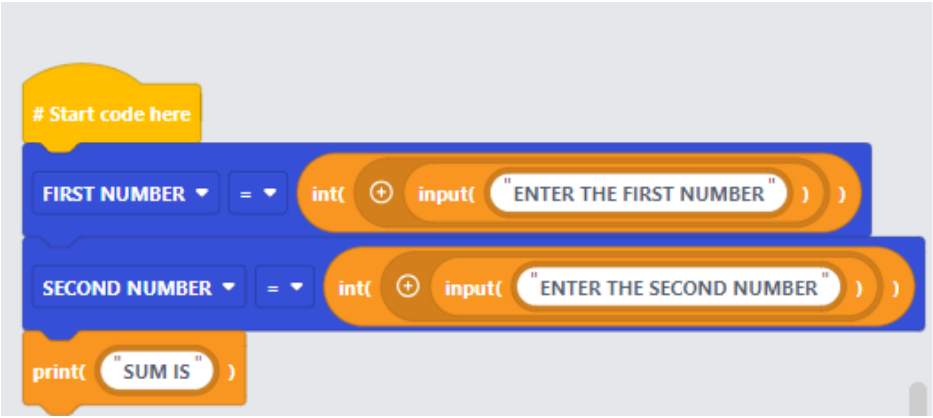
```
1  #Start code here
2  FIRST_NUMBER = int(input("ENTER THE FIRST NUMBER"))
3  SECOND_NUMBER = int(input("ENTER THE SECOND NUMBER"))
4
```

Create another variable with name 'SECOND NUMBER' the same way to store the second number

Program Step 7:-



Connect print"Hello World" block and change the text to "Sum is"



Code

```
1  #Start code here
2  FIRST_NUMBER = int(input("ENTER THE FIRST NUMBER"))
3  SECOND_NUMBER = int(input("ENTER THE SECOND NUMBER"))
4  print("SUM IS")
5
```

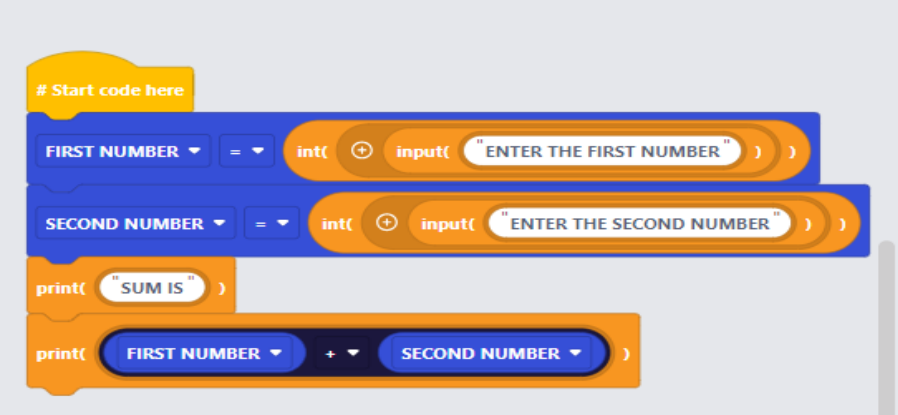
Program Step 8:-

Stack the print variable block and change the variable to(First number + Second number), this block will add the values stored in variables First number and Second number and print the result

Code

```
1  #Start code here
2  FIRST_NUMBER = int(input("ENTER THE FIRST NUMBER"))
3  SECOND_NUMBER = int(input("ENTER THE SECOND NUMBER"))
4  print("SUM IS")
5  print(FIRST_NUMBER + SECOND_NUMBER)
6
```

Output



Code

```
1  #Start code here
2  FIRST_NUMBER = int(input("ENTER THE FIRST NUMBER"))
3  SECOND_NUMBER = int(input("ENTER THE SECOND NUMBER"))
4  print("SUM IS")
5  print(FIRST_NUMBER + SECOND_NUMBER)
6
```

Code Output

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```
ENTER THE FIRST NUMBER 45
ENTER THE SECOND NUMBER 56
SUM IS
101
```

ACTIVITY SHEETS

Question:1

Which python operator means ‘Remainder’?

A. *
B. /
C. +
D. %

Question:2

What is the output of the following code :

A. 52
B. 11
C. 15
D. 1.56

Question:3

Returns the remainder from division

A. Variables
B. print
C. exponent
D. modulus

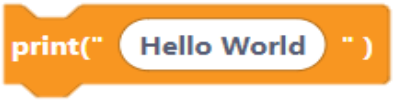
Question:4

Which symbol is used in python to assign values to a variable?

A. Equal to(=)
B. Forward slash(\)
C. Plus(+)
D. Asterik(*)

Question:5

Which function is used to accept data as input at run time?



Homework

</>Make a program to find the square, cube of any given number