



## 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

# 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

True + True

Addition

+

True - True

Subtraction

-

True / True

Division

÷

True \* True

Multiplication

×

True % True

Remainder

%

## TASK 01:-

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

# Program Step 1:-

Imports

Variables

Statements

Text

Math

Output

print( "Hello World" )

print( 1 )

For printing output take a print variable block

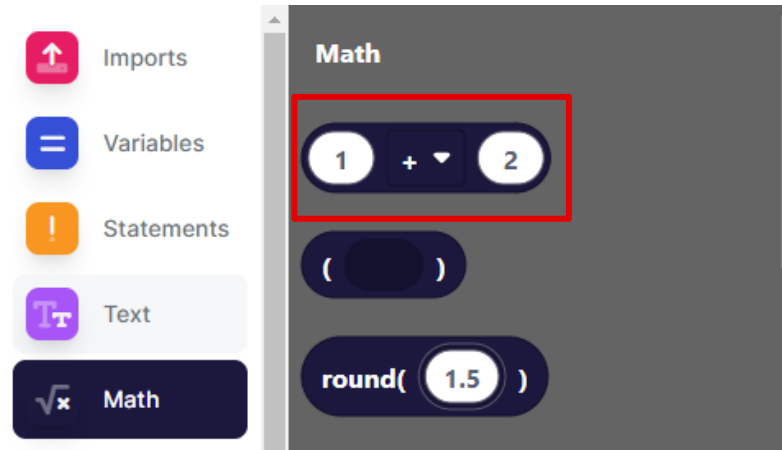
# Start code here

print( 1 )

Code

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

# 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:-

# Start code here

print( 1 + 2 )

print( 12 - 6 )

print( 43 \* 2 )

print( 5 / 2 )

print( 6 % 7 )

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

# Start code here

print( 1 + 2 )

print( 12 - 6 )

print( 43 \* 2 )

print( 5 / 2 )

print( 6 % 7 )

Code

Output

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3

6

86

2.5

6

## TASK 02:-

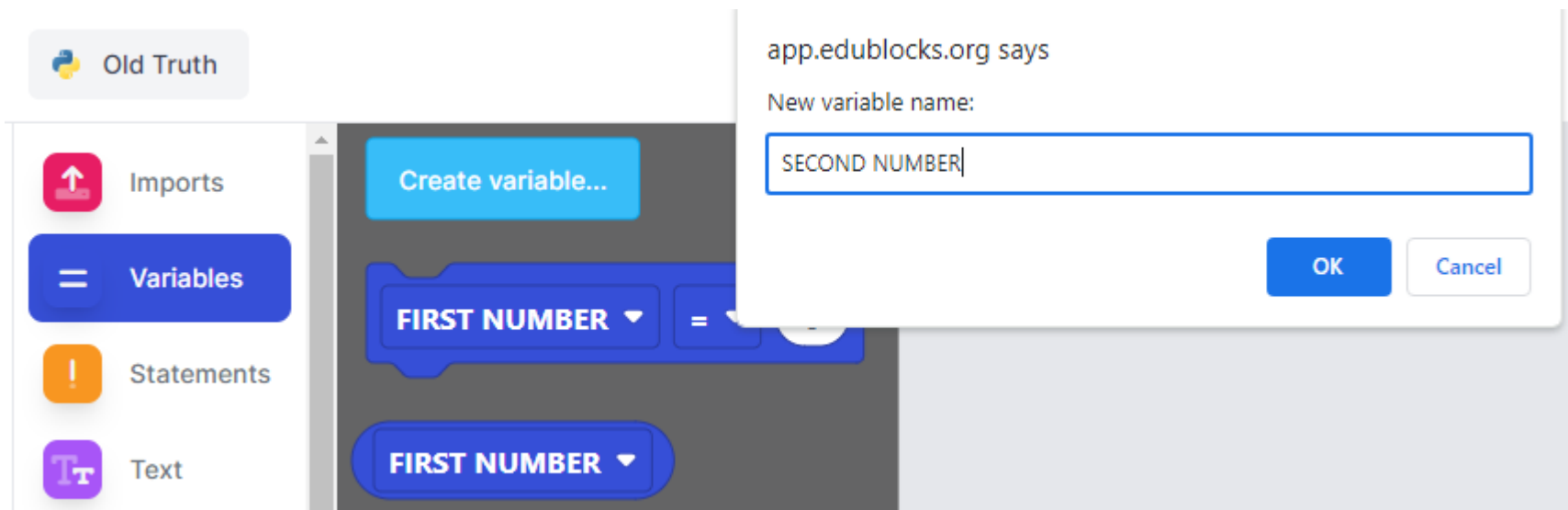
**</> WRITE A PROGRAM SUM THE DIGITS OF THE GIVEN NUMBER**

# Program Step 1:-

The screenshot shows the app.edublocks.org interface. On the left, there is a sidebar with three buttons: 'Imports' (with an upward arrow icon), 'Variables' (with an equals sign icon), and 'Statements' (with an exclamation mark icon). The 'Variables' button is highlighted. In the center, there is a dark grey panel with a blue button labeled 'Create variable...'. To the right, a white dialog box is open. It contains the text 'app.edublocks.org says' and 'New variable name:'. Below this text is a text input field containing the text 'FIRST NUMBER'. At the bottom right of the dialog box are two buttons: 'OK' (in blue) and 'Cancel' (in white with a blue border).

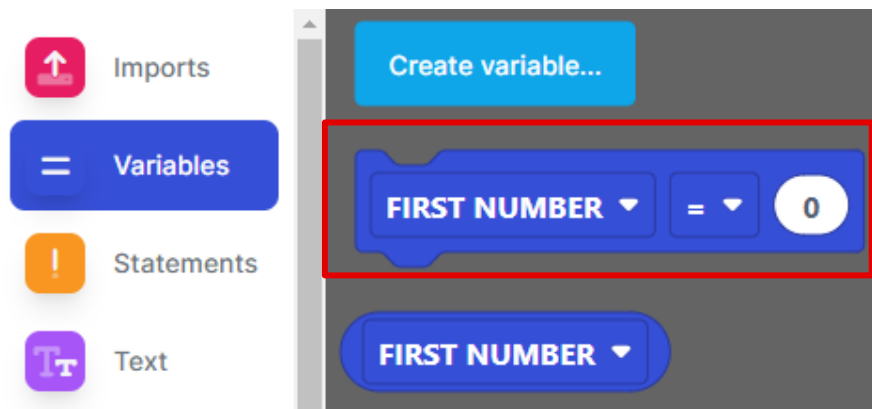
Create a variable name it as "FIRST NUMBER"

## Program Step 2:-



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

# Program Step 3:-



Imports

Variables

Statements

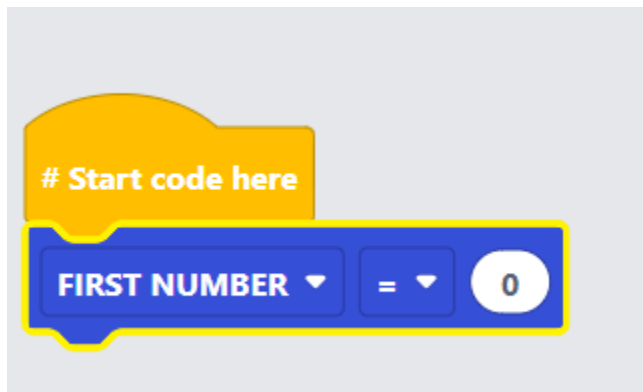
Text

Create variable...

FIRST NUMBER ▾ = 0

FIRST NUMBER ▾

Initialize the "First number" variable



# Start code here

FIRST NUMBER ▾ = 0

Code

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

# Program Step 4:-

- Imports
- Variables
- Statements
- Text
- Math



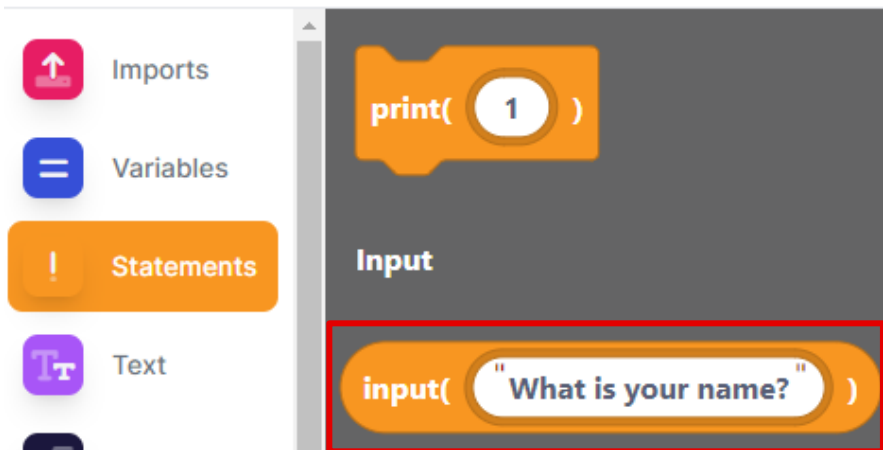
Store an int block to specify that input will be stored as an integer



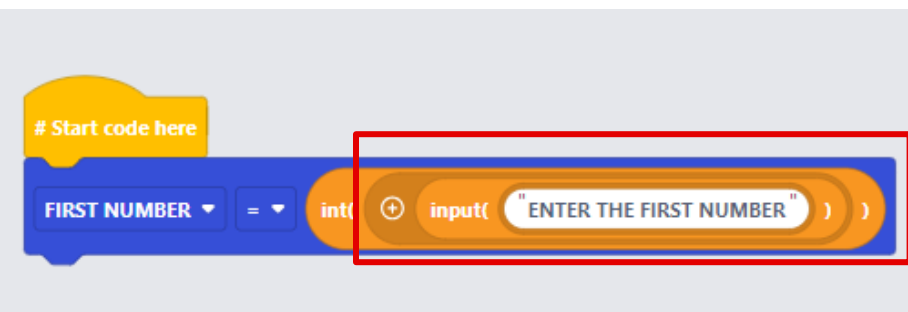
Code

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

# Program Step 5:-



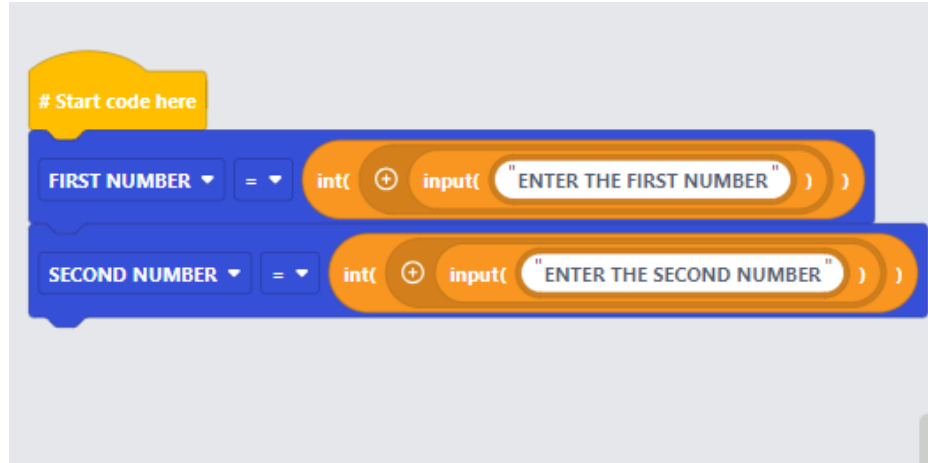
Add an input block to take input from the user



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:-

Imports

Variables

Statements

Output

```
print( "Hello World" )
```

```
print( 1 )
```

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

# Start code here

```
FIRST_NUMBER = int( input( "ENTER THE FIRST NUMBER" ) )
```

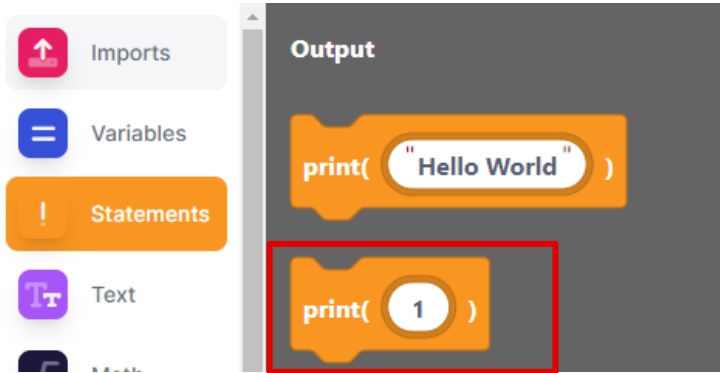
```
SECOND_NUMBER = int( input( "ENTER THE SECOND NUMBER" ) )
```

```
print( "SUM IS" )
```

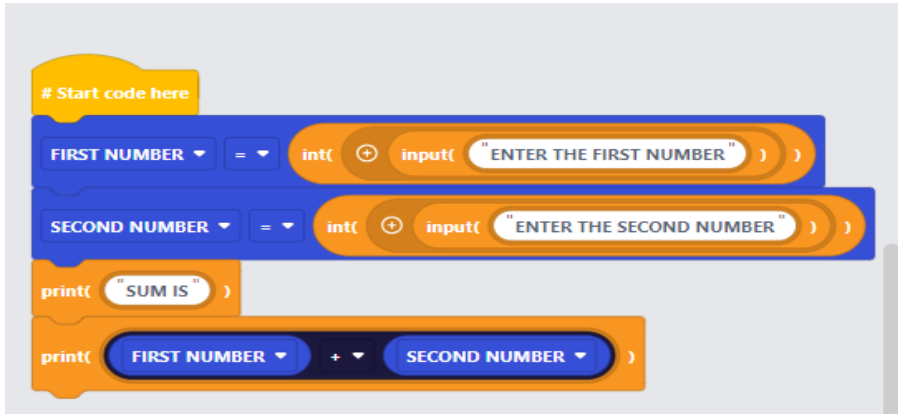
Code

```
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

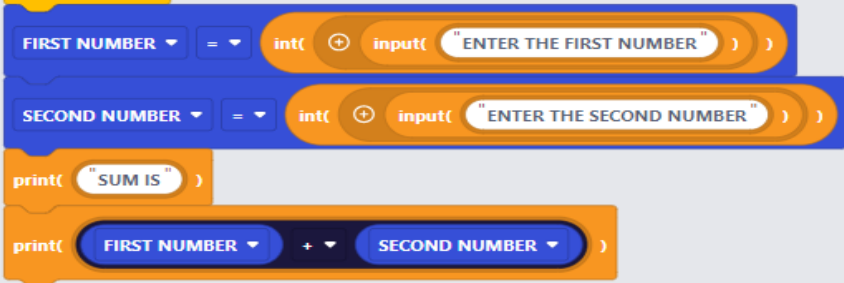


Code

```
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

# Start code here




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 :

```
print( 5*3 )
```

- 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?

`print(" Hello World ")`

`print( Variable )`

`input( " What is your name?" )`

`int( 1 )`

