

**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

(Year 2 – Semester 2, *TRC campus*)

**UNIT CODE:** BIT 2204

**UNIT TITLE:** Object Oriented Programming 2 - Python

**TASK**: Assignment 1

**SUBMITTED BY:**

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**DATE OF SUBMISSION**: Sep 3rd , 2019

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**Assignment 1:**

**Python Basics**

**a) Explain five types of operators used in python**

Operators in python are grouped into various categories:  
Arithmetic operators

**+ (addition)**

Returns the sum of two expressions.

**- (subtraction)**

Returns the difference of two expressions.

**\* (multiplication)**

Returns the product of two expressions.

Assignment operators

**= (simple assignment)**

Assigns a value to a variable(s).

**+= (increment assignment)**

Adds a value and the variable and assigns the result to that variable.

**- = (decrement assignment)**

Subtracts a value from the variable and assigns the result to that variable.

REF: [Python operators](https://python-reference.readthedocs.io/en/latest/docs/operators/)

**Python Lists**

a) Write a Python program to sum all the items in a list

|  |
| --- |
| numbers = [89, 33, 74, -5]  # use the sum function  numbersSum = sum(numbers)  print(numbersSum) |

b) Write a Python program to multiply all the items in a list.

# Python program to multiply all values in the list using traversal

|  |
| --- |
| def multiplyList(myList) :      # Multiply elements one by one      result = 1      for x in myList:           result = result \* x      return result  # Driver code  list1 = [1, 2, 3]  list2 = [3, 2, 4]  print(multiplyList(list1))  print(multiplyList(list2)) |

**References *(On its own page)***

***Use APA or Harvard referencing styles***

**References – apa (citationmachine.net)**