**PROGRAMMING LANGUAGES WITH LAB**

Laboratory Activity 1

**Array as Python Module**

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Score

*Submitted by:*

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**<1:30-4:30 pm> / <BSCS 2-YA-2>**

*Date Submitted*

**12/10/2022**

*Submitted to:*

**Engr. Maria Rizette H. Sayo**

1. Methodology (10 points each)
2. Write a Python program to create an array of 10 integers and display the array items. Access individual elements through indexes and compute for the sum.

numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

sum=0;

print("The list of integers are:",numbers)

for x in range(0,len(numbers)):

sum=sum + numbers[x]

print("The sum of all integers is:",sum);

1. Write a Python program to append a new item to the end of the array. Original array: numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("The list of integers are:",numbers)

numbers.append(11)

print("The list of integers with a new item",numbers)

1. Write a Python program to insert a new item before the second element in an existing array. Original array: numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("The list of integers are:",numbers)

numbers.insert(1,20)

print("The list of integers with a number inserted before second element:",numbers)

1. Write a Python program to reverse the order of the items in the array. Original array: numbers = [5, 4, 3, 2, 1]

numbers=[5, 4, 3, 2, 1]

print("The list of integers are:",numbers)

numbers.reverse()

print("The list of reversed integers are:",numbers)

1. Write a Python program to get the length of the array. Original array: numbers = [5, 4, 3, 2, 1]

numbers=[5, 4, 3, 2, 1]

print("The list of integers are:",numbers)

x = len(numbers)

print("The length of the array is:",x)

1. Results (7 points each)

* Write all source codes and screen shot of all the output

1. numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

sum=0;

print("The list of integers are:",numbers)

for x in range(0,len(numbers)):

  sum=sum + numbers[x]

print("The sum of all integers is:",sum);



2.numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("The list of integers are:",numbers)

numbers.append(11)

print("The list of integers with a new item",numbers)



3.numbers=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

print("The list of integers are:",numbers)

numbers.insert(1,20)

print ("The list of integers with a number inserted before second element:",numbers)



4. numbers=[5, 4, 3, 2, 1]

print("The list of integers are:",numbers)

numbers.reverse()

print("The list of reversed integers are:",numbers)



5. numbers=[5, 4, 3, 2, 1]

print("The list of integers are:",numbers)

x = len(numbers)

print("The length of the array is:",x)



1. Conclusion (15 points)

*The conclusion expresses the summary of whole laboratory contents*

