Assignment - 13 Full Stack Web Development using Python MySirG

List

**1. Write a python script to store multiple items in a single variable ( Items are “Java”**

**,“Python”, “SQL”, “C” ) using list**

l1=["Java","python","SQL","C"]

print(l1)

**2. Write a python script to get the data type of a list**.

def get\_list\_data\_type(lst):

# Check if the list is empty

if len(lst) == 0:

return "Empty list"

# Get the type of the first element in the list

data\_type = type(lst[0])

# Check if all elements in the list have the same type

for item in lst:

if type(item) != data\_type:

return "Mixed data types"

return data\_type.\_\_name\_\_

# Example usage

my\_list = [1, 2, 3, 4, 5]

data\_type = get\_list\_data\_type(my\_list)

print(f"The data type of the list is: {data\_type}")

**3. Write a python script to get the last item of the list ( mylist = ["Java", "C", "Python"])**

my\_list = ["Java", "C", "Python"]

last\_item = my\_list[-1]

print("The last item of the list is:", last\_item)

4. Write a python script to Change the values "SQL" and "Reactnative" with the values

"NoSQL" and "Flutter" (List is thislist = ["Java", "SQL", "C", "Reactnative",

"Javascript", "Python"]

thislist = ["Java", "SQL", "C", "Reactnative", "Javascript", "Python"]

# Find the indices of "SQL" and "Reactnative" in the list

sql\_index = thislist.index("SQL")

reactnative\_index = thislist.index("Reactnative")

# Replace the values at the respective indices

thislist[sql\_index] = "NoSQL"

thislist[reactnative\_index] = "Flutter"

# Print the updated list

print("Updated list:", thislist)

5. Write a python script to add an item to the end of the list (item “Python”. (mylist =

["Java", "SQL", "C", "Reactnative"]

mylist = ["Java", "SQL", "C", "Reactnative"]

item = "Python"

mylist.append(item)

print("Updated list:", mylist)