

Lists Practice Problems Solutions:

"""

Creating A List and Accessing by Index:

- 1.create a 4 element list that consists of values that are all strings and assign it to a variable*
- 2.create a 3 element list that consists of values that are all numbers and assign it to a variable*
- 3.create a 5 element list that contains at least 1 string, 1 number, and 1 Boolean value and assign it to a variable*
- 4.Print the list you created in step 1*
- 5.Access by index and print the second element of the list you made in step 2*
- 6.Access by index and print a boolean value from the list you made in step 3*

"""

```
# -----  
  
# 1.  
strList = ["this", "is", "a", "list"]  
  
# 2.  
numList = [3.14159, 1138, 7]  
  
# 3.  
fiveEl = ["apple", 2, 9.81, True, False]  
  
# 4.  
print(strList)  
  
# 5.  
print(numList[1])  
  
# 6.  
print(fiveEl[3]) # print(fiveEl[4]) would have also been an acceptable solution here  
  
# -----
```

"""

Index Reassignment and .append():

- 1.create a variable and assign it the list [1, 2, 3]**
- 2.print the list from step 1**
- 3.reassign the first element in the list from step 1 the value 2**
- 4.reassign the second element in the list from step 1 the value 3**
- 5.reassign the third element in the list from step 1 the value 4**
- 6.use .append() to add the value 6 to the end of the list from step 1**
- 7.print the resulting list**

"""

```
# -----

# 1.
threeEl = [1, 2, 3]

# 2.
print(threeEl)

# 3.
threeEl[0] = 2

# 4.
threeEl[1] = 3

# 5.
threeEl[2] = 4

# 6.
threeEl.append(6)

# 7.
print(threeEl)
```

```
# -----

.....
```

List Slicing:

- 1.create a 7 element list and assign it to a variable
- 2.slice the list from its first element to its fourth element and print the resulting 4 element list
- 3.slice the list from its third element to its fifth element and print the resulting 3 element list
- 4.slice the list from its second element to its last element and print the resulting 6 element list

```
.....

# -----

# 1.
sevEl = [1, 2, 3, 4, 5, 6, 7]

# 2.
print(sevEl[:4])

# 3.
print(sevEl[2:5])

# 4.
print(sevEl[1:])
```

```
# -----
```

```
.....
```

.index() and .insert()

- 1.create a variable and assign it the list ["Bob Dylan", "Like a", "Rolling Stone"]
- 2.use the .index() function to find and print the index of the string "Rolling Stone" from the list in step 1
- 3.use the .insert() function to insert the string 1965 at index 0 of the list from step 1
- 4.print the list that results from step 3

```
.....
```

```
# -----
```

```
# 1.
```

```
songNAuthor = ["Bob Dylan", "Like a", "Rolling Stone"]
```

```
# 2.
```

```
print(songNAuthor.index("Rolling Stone"))
```

```
# 3.
```

```
songNAuthor.insert(0, str(1965))
```

```
# 4.
```

```
print(songNAuthor)
```

```
# -----
```

```
.....
```

.remove() and .pop()

- 1.create a variable and assign it the list ["McCartney", "Lennon", "Starr", "Harrison", "Sutcliffe"]
- 2.use .remove() to remove of the "Sutcliffe" from the list created in step 1.
- 3.print the new list
- 4.use .pop() to remove and print "Lennon" from the list
- 5.use .pop() to remove and print "Harrison" from the list
- 6.print the new list

```
.....
```

```
# -----
```

```
# 1.
```

```
beatles = ["McCartney", "Lennon", "Starr", "Harrison", "Sutcliffe"]
```

```
# 2.
```

```
beatles.remove("Sutcliffe")
```

```
# 3.
```

```
print(beatles)
```

```
# 4.  
print(beatles.pop(1))
```

```
# 5.  
print(beatles.pop())
```

```
# 6.  
print(beatles)
```

```
# -----
```