

KING SAUD UNIVERSITY
COLLEGE OF APPLIED STUDIES AND COMMUNITY SERVICE
GC211(Data Structures)
Tutorial 4

Question 1:

a) create an array list called names which includes the following names list:

[Mike, James, Judy]

Answer:

```
import java.util.ArrayList;
import java.util.List;

public class arraylist {

    public static void main(String[] args) {

        ArrayList names = new ArrayList();
        names.add("Mike");
        names.add("James");
        names.add("Judy");
    }
}
```

b) write a java instruction to print all elements in array list:

Answer:

```
System.out.println(names);
```

Output:

```
[Mike, James, Judy]
Process completed.
```

c) write a java instruction to update the first name in the list to "Mikey" then print all elements in array list:

Answer:

```
names.set(0, "Mikey");
System.out.println(names);
```

```
[Mikey, James, Judy]
Process completed.
```

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d) write a java instruction to show the number of elements in the list:

Answer :

```
System.out.println(names.size());
```

Output:

3

e) write a java instruction to add the following set of numbers to the list then print all elements in array list: [10,20,30]

Answer :

```
names.add(10);  
names.add(20);  
names.add(30);  
System.out.println(names);
```

Output:

```
[Mike, Jemes, Judy, 10, 20, 30]
```

f) write a java instruction to remove the last name in the list then print all elements in array list:

Answer -1-:

```
names.remove(5);  
System.out.println(names);
```

Answer -2-:

```
names.remove(names.size()-1);  
System.out.println(names);
```

Output:

```
[Mike, Jemes, Judy, 10, 20]  
Process completed.
```