ASSIGNMENT

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java

Array list operations

```
Import java.util.Arraylist;
Public class
Arraylist Operations {
    Public static void
main (String[] args){
    Arraylist < String> list = new Arraylist<>();
    list.add ("Apple");
    list.add ("Banana");
    list.add ("Orange");
    list . remove(1);
String SearchElement = "Orange";
    int index = list.index of (search element);
    if (index != -1){
System.out.print (SearchElement + " is found at index : "+
                index);
}else{
System.out.print(search Element+ " is not found in the
                list "); }
```

```
for (String element: list){
System.out.print(element);
}}}
```

Hashset Operations

```
import java.util.HashSet;
Public class HashSetOperations
{
  Public static void
 main (String[] args){
    HashSet<String> nameset = new HashSet<>();
        nameset.add("John");
        nameset.add("Alice");
        nameset.add("Bob");
    nameset.remove("Alice");
        String checkname = "Bob";
        if (nameset contains (checkName)){
System.out.print(checkName)}
   }else{
System.out.print(checkName + " is not found in the set");}
 for (String name: nameset){
  System.out.print(name);
 }
}
}
```

3. Priority Queue Operations

```
import java.util priority Queue;
Rublic class
Priority Queue Operation {
 Rublic static void
main (String [] args) {
    Priority Queue <String>
employee Queue = new priority Queue < > ( );
employee Queue.add ("employee1");
employee Queue.add ("employee 3");
employee Queue.add ("employee 2");
System.out.print (" Removed employee : " + employee Queue.poll ( ));
System.out.print ("Remaining employees", for (String employee :
      employee Queu);
System.out.print (employee), }}}
```

4) Hashap operations

```
import java.util.HashMap;
import java.util.Map;
Public class Hash Map operations {
  Rublic static void main (Sting [] args) {
HashMap < Integer, String> Student
    Map = New
  Hash map < > ( );
```

```
studentMap put (101, "John");
studentMap put (103, "Bob");
    int searchID=102;
(studentMap.containsKey (searchID))
}else{
System.out.print ("student with ID"+ searchID+ "not found");
}
  studentMap.remove (103);
 System.out.print ("ID" + "Name");
}
}
}
```