SASSignment!

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1. Array list operations 1. Add elements to the list a. Remove an element by index 3. search for an element and print its position 4. I terate through list and display all element & impost Java. util. Arraylist; Public class ArrayList Operations &
Public static void main (StringE) args) { ArroyList & string> list = new Array Lister (); list add ("Apple"); listiadd ("Banana"); list. add ("Orange"); list. add remove (1); string search Element = "Orange"; int index = list. index of esearch Element); if (index!=-1) {

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System.out. println(searchElement+"is
   found at index : "+ index);
         3 else ¿
   System out printin c search element +"is not
   found in the list.");
         for (string element: list) {
     System. out. print/n (element);
2. Hashset Operations
  import java. util. Harhset;
  Public class Hash set operations
     Public static void
  main (string[] args) {
             Hash Set ( String > name Set
  = new Hashsetz>();
            name set add ("John");
            nameset. add (" Alice");
            name Set. add ("Bob");
     nameset. remove ("Alice");
```

```
String checkename = "Bob";
           if (name set contains (check Name)
  System out println (checkname)) {
          3 elre &
   System out printin checkName + " is
   not bund in the set ."); 3
          for estring name; name set) {
          systemout printin (name);
3. Priority queue operations
  import java util Priority Que ue;
  Public class
  Priority Onene Operation & 5
        Public static void
   main Cstring[] args) {
            Priority queue (string)
   employée Queue = new préonty Queuecro);
   employee Ocene. add ("employee!");
   employee Queue. add ( "Employee 3");
   employée Queue. add ("Employée 2");
   System. out printing " Removed employee?"
   employee. Pauce. Poll();
```

```
System out pointin ("Remaining employee's)
         for estring employee : employeequeu);
  systemat. printinc employee);
4. Hashup Operations
   import java. util. HauhMap;
   import java. util. Map;
  Public class Hosh Map Operations &
          Public static void main(string[]
           HashMap < Integer, strings student
           Map = New
     Hashmap();
                student Map. put(161, "John");
          studentmap. Put (102, "Alice");
        StudentMap. put(103, "Bob");
             int search ID = 102;
     (studentmap-containskey(searchID)){
      5 else {
     System out printin ('Student with ID'+
       searchID + "not found!"); 3
              student Map-remove (103);
     system. out. println ("ID: "+ "name");
```