## ASSIGNMENT 01

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COURSE CODE :- CSA0914

COURSE NAME:-Programming in Java
For Raspberry Pi

Submitted To:-

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```
pseudocade; -
PROGRAM ArrayUst-gerations
     DECLARE LIST AS Arraylist of String
   ADD applito list
   ADD" Banana" to List
   ADD "cheny" to list
   ADD " dates" to list
    print "Initial Not" + Wot
    SET remakinda to 2
    Remar element at remove inder from List
    print "remard clement " + removedelement
    print "last after removal:" + List.
    SET searchelement to "data"
    Set search index to Ender of search clument in 1884
    if Scarchinder is not -1 then
      print "clement" + search clement " found at" + Search index
   else
      print " clement not found "
  Print "Sterating through the list;"
  for each clement in list
    print element
   and for
and program.
autputi
Initial List: (apply, banana, Cheny, dates)
removed element , cherry
clement dates' found at 3
```

```
Diodiami.
import java util Arraylist;
public class Anaylest perations (
   public static roid main(stringerage) ¿
       Arraylist a Strings list = new Arraylist <>0);
        tish. add ("appli")
        lid. adt ("banend),
       List. add ("cheny");
       lid. add ("dates"),
     Spkm. ad-printen ("Initial USA:"+ list);
     int remove index = 2;
      String remarkelement = List remove (remarkedon);
      System autoprinten ("kmardelement;" + kmardelement).
      Systm. aut. printin ("List after removal!" + list);
     String Searchelement s"date"
     if Gearch, index = -1) {
      , System, out printing "element found at:"+ search index);
    eloc (
      System. out-print in (" clement not found:");
    System. aut. printen (" Herating through the list: ");
     for (String clement: Not)
      Sprkm. aut-printer (clement)
 )
```

9

pscudoade:program Harbset operations Declare nameset an Harbset of Strings Add "Johd" to name set Add "Alla" to nomeset Add "Bob" to nameset print "Initial set" + nameset. SET rewrome to "David" ADD neighborse to nameset. print "setabler adding" + neumanne + ": " + nameset. SET removename to "Bob" Remove removenome from nomeset print "set after removing" + removename + ";" + nameset. Scarchname to 'Alice' If nameset Castains search name then print "name is present in the set" elx bring " name is not present" end for end pragram. cutput: Initial set: [Bob, John, Alia] Set after adding david: [Bob, John, Alice, David] set after apmoving Bob: (John, Alice, David) Name Auce is present in the Set.

```
Import janorulis. Beanner
public class Hanhveloperations (
  public static void main (String () ang) (
      tombset astring> nameset = new Horshet <>0;
        nameset. add ("John");
        nameset. add ["Auci")
        nameset. adt ("Bob");
       System. out printer ("Instial Set: " + nomeset);
        String newnonne = "David";
        name set, add (new manne)
        System. Out-printles ("set after adding" + nameset)
        String removename = "Bob";
         nameset. remove (remove name);
         System. aut. printle ("set after removing" + names et):
         String Search name = "Alice"
         if (name-set contains) (searchname)) {
           System Out-printly ("name is found ");
          else 1
           System, and printer (" name is not present");
          System. out printer ("obsplay au names:");
    }.
```

Pseudocade:program privilyqueunexample Declare Employee As class Declare name an String Declare pribrity as Enteger. Constructor Employee (name as String, privily as Enteger) Set this name to name Set this. priority to priority end constructor end class Acctant pagas priorityqueur of Employer Set pq. to new priorityqueue (cel, e2) = e2. priority-e1. priority ADD news Employer ("Dkn", 3) to pg ADD new Employee ("Alice", D to pg ADD reini Employee ("Bob", 2) to pg ADD new Employee ("eve", ") to pr. print "Initial prinityqueue:"-+ px. SET highest priority Employe to 17. polls end for and program. aupart. Eve - priority: 4 John - privrity: 3

```
program:
Import javo. util. priorityqueue &
Class Employee {
    String name;
    int priority;
      public employer (Stringname, int priority) ¿
          this name = name;
          this priority = priority,
     public class priorityqueuxexample (
       public Static void main (String 1) argh? {
          briouphdrem < Embakes bd=vern briouphdrem <>
          pg. och (nem Empayer ("John", 3));
         Pq.add (new Employee ("Alice", 1));
         pq.add( new employee ("Bob", 20);
         pg. add (new emplayer ("eve", 40);
      System. out-printer (" Enitial priority" + p2);
      Employee highest prioritemplake = 19. policis;
         System. aid. printer (" remard Employee " + highest priority);
        System. aut. printen ("priority queen after highest priority");
```

```
Pseudocades-
program Handmap Elample
Declare Studentmap of
Add 101 to Studentma
Add 102 to Studentma
```

Declare Studentmap An Inoshmap of integer to String

Add 101 to Skitchtmap with value "John"

Add los to Studentmap Mith value "Alice".

Add 103 to Studentmap With value & Bob".

Add tout to Student map With rally eve".

print "Inital Harbmap:"+ Studentmap.

Sct searched to 193

It Stitled map contain key searchid then

print Student id " + scarchid+ " corresponds to "+ Student map)

print "student id is not found".

end of

print "Hashmap outler removing skedent:"-iskedent map

for each it in studentmap. Keyset

end for

end program.

## Output:

Initial Hashmap: { 101= John, 102=Alice, 103=Bob, 1001= Fire}
Student 80103 Corrsporch to Bob.

Stepher

displaying all names:

SD: 101, Name: John

50: 103, Mam: 130b.

```
program:-
import java . Util . Hashmap ?
public class Hashmapskample (
     public static void main (String() engs) [
        Hashmap ( Integer, String > Studentmap = new Hashmap ();
         Studentrap-part (101, "John")
         Student map. put (102, "Alici");
        Student map. put (103, " Beb")
        Stedendmap. put (low, "Eve");
        System. Out. printer ("Enitial Harhmap" + Studentmap);
        int Searchid = 1033
        if (Studentmap. Contains keey (searchid)) {
            System-out-printly (" name to present:");
       else s
         System. out-printer (" name is not present !!);
       System and printer ("Hash map after removing" of Student map)
```