Java Solutions

Hands on Section:

1.

```
| Decision1,java | Decision1,java | Decision1 | Decision1,java | Decision1,java | Decision1,java | Decision1 | Decision1,java | Decision1 | Decision1,java | Decision1 | Decision1,java | Decision1,java | Decision1,java | Decision1,java | Decision1,java | Decision1,java | Decision1 | Decision1,java | Decision1 | Decision2 | Decision1 | Decision3 | Decisi
```

2.

```
Decision2/java \( \text{import java.util.*}; \) backage handson;

backage handson;

public class Question2 {

public static void main(String[] args) {

TreeMap <String, String> tmap = new TreeMap <String, String> ();

tmap.put("A", "Shreya");
tmap.put("B", "Riya");
tmap.put("C", "Rohan");
tmap.put("C", "Rohan");
system.out.println("Orginal-" + tmap);
System.out.println("Reverse-" + tmap.descendingKeySet());

Problems @ Javadoc \( \text{Q} \) Declaration \( \text{Q} \) Console \( \text{S} \)

**Terminated \( \text{Question2} \) (1 Java Application] \( \text{COrsopar Files\Java\jdk-15.0.1\bin\javaw.exe} \) (23-Feb-2021, 9:21:37 am - 9:21:39 am)

Orginal-(A~Shreya, B-Riya, C-Rohan, D-Priya)

Reverse-[D, C, B, A]
```

```
□ □ □ Console 🏻
import java.util.*;
                                                                                                 ^ 🖳 🍙 🗶 💸 🔒 🔐 🚱 🗗
0 4 class ExceptPrime extends Exception{
                                                                                                      <terminated> Question3 [Java Applicati
  6 }
                                                                                                      2 is a Prime Number
                                                                                                      3 is a Prime Number
   8 public class Question3 {
                                                                                                      5 is a Prime Number
         public static boolean checkPrime(int number) {
                                                                                                      7 is a Prime Number
              if(number<=1)
                                                                                                      11 is a Prime Number
                  return false;
                                                                                                      13 is a Prime Number
              if(number<=3)
                                                                                                      17 is a Prime Number
                  return true;
                                                                                                      19 is a Prime Number
              if(number%2==0||number%3==0)
                                                                                                      23 is a Prime Number
              return false;
for(int i=5;i*i<=number;i=i+6)
if(number%i==0 || number%(i+2)==0)
 15
                                                                                                      29 is a Prime Number
                                                                                                      31 is a Prime Number
                                                                                                      37 is a Prime Number
                      return false;
                                                                                                      41 is a Prime Number
              return true;
 19
                                                                                                      43 is a Prime Number
 20
         }
                                                                                                      47 is a Prime Number
                                                                                                      53 is a Prime Number
         public static void main(String[] args) {
                                                                                                      59 is a Prime Number
 23
              int c=1;
while(c<=100) {
                                                                                                      61 is a Prime Number
                                                                                                      67 is a Prime Number
                  try {
   if(checkPrime(c))
 25
26
                                                                                                      71 is a Prime Number
                                                                                                      73 is a Prime Number
 27
                           throw new ExceptPrime();
                                                                                                      79 is a Prime Number
 28
                                                                                                      83 is a Prime Number
                  catch(ExceptPrime e) {
   System.out.println(c+" is a Prime Number");
 29
30
                                                                                                      89 is a Prime Number
                                                                                                      97 is a Prime Number
  31
                  finally {
 32
 33
                      C++;
 34
 35
```

4.

```
☐ Question4java ☐ Constitution of the constit
                                                                                                                                                                                                                                                                                                        □ □ □ Console ⊠
                                                                                                                                                                                                                                                                                                                 ^ 📱 🍙 💥 🖳 🚮 🐶 📁 💯
                                                                                                                                                                                                                                                                                                                                 → □ + →
     11
                                  String name;
                             transient int batch;
                                                                                                                                                                                                                                                                                                                                <terminated> Question4 [Java Application] C
     13
                                 String department;
                                                                                                                                                                                                                                                                                                                                Before deserialization:
    14
15
                                                                                                                                                                                                                                                                                                                                ID: 1
     160
                                 public Data(int id, String name, int age ,int batch,String department)
                                                                                                                                                                                                                                                                                                                                Name: Snigdha
     17
                                                                                                                                                                                                                                                                                                                                Age: 22
     18
                                               this.id = id;
                                                                                                                                                                                                                                                                                                                                Batch: 2
     19
                                                this.name = name;
                                                                                                                                                                                                                                                                                                                                Department: CSE
                                               this.age = age;
this.batch=batch;
     20
                                                                                                                                                                                                                                                                                                                                 After deserialization:
     21
     22
                                               this.department=department;
                                                                                                                                                                                                                                                                                                                                Name: Snigdha
                                                                                                                                                                                                                                                                                                                                Age: 0
    25
26⊖
                   public class Question4{
   public static void display(Data d){
                                                                                                                                                                                                                                                                                                                                Batch: 0
                                                                                                                                                                                                                                                                                                                                Department: CSE
                                              iic static void display(Data d){
    System.out.println("ID: " + d.id);
    System.out.println("Name: " + d.name);
    System.out.println("Age: " + d.age);
    System.out.println("Batch: " + d.batch);
    System.out.println("Department: " + d.department);
     28
     29
     30
     31
     32
     33⊝
                                 public static void main(String []args){
                                              Data d = new Data(1, "Snigdha", 22,2,"CSE");
     34
     35
                                               try {
     36
37
                                                            FileOutputStream file = new FileOutputStream("store.txt");
     38
                                                            ObjectOutputStream out = new ObjectOutputStream(file);
     39
                                                            out.writeObject(d);
     40
                                                            out.close();
     41
                                                            file.close();
                                                            System.out.println("Before deserialization:\n");
     42
```

Questions on Slides:

1.

```
□ □ □ Console 🏻
Stack<Integer> a = new Stack<Integer>();
Stack<Double> b = new Stack<Double>();
Stack<Integer> c = new Stack<Integer>();
Stack<Double>();
                                                                                                                                           ^ 🖳 🎟 🗶 💥 🔒 🚮 🔡 🚑 💯
                                                                                                                                                  ♂ 🗉 + 📸 +
                                                                                                                                                  <terminated> Question1 [Java Application
                                                                                                                                                  Enter the number
                         System.out.println("\nEnter string\n");
                         String str = sn.next();

str = "0" + str;

str = str.replaceAll("-","+-");
                                                                                                                                                  Enter string
                        String temp = "";
for (int j = 0;j < str.length();j++)
                                                                                                                                                   -5+8*6
                                                                                                                                                  43.0
                              char ch = str.charAt(j);
if (ch == '-')
    temp = "-" + temp;
else if (ch != '+' && ch != '*' && ch != '/')
                                   temp = temp + ch;
                               else
                                     b.push(Double.parseDouble(temp));
                                     a.push((int)ch);
                                     temp =
                         b.push(Double.parseDouble(temp));
char operators[] = {'/','*','+'};
for (int i = 0; i < 3; i++)</pre>
                               boolean it = false;
                               while (!a.isEmpty())
                                     int optr = a.pop();
                                     double v1 = b.pop();
double v2 = b.pop();
if (ontr == onerstore
50
```

2.

