```
Assignment-2
 1> closs Student <T>{
         String name;
         Troll Number;
          intage;
         public Student (String name, TrollNumber, intage) {
                                 price to an amplification
              this. name = name;
              this . rollNumber = nollNumber;
              this. age = age;
                                      I. Write top and sollars.
        public void display(){
             System. out. println ("Name:"+ name);
             System. out. println ("Roll Number: " +roll Number);
             System.out. println ("Age: "+ age);
   public class Main {
          public static void main (String [] eurge) {
             Student (Integer) s1 = new Student <> ("Bob", 18, 19);
             Student (String) S2 = new Student <> ("John", " 23);
             System.out. println ("Details of Student 1:");
             s1. display ();
                                   Fill you larger Trees
             System.out.println();
             System. out. println ("Details of Student 2:");
             sa. display ();
                                    一种似地数1. 农业。 李松 成二
             System, out println ();
                                  Details of Student 2!
Output Details of Students:
                                   Name: John
Name: Bob
                                   Roll Number: 8t AWS
Roll Number:18
                                   Flac: 23
                                          Regd. Number: 2241013183
       Name: Stribreuhra Mishra
```

```
a) class Book {
        int book 1d;
        String bookName;
        double prices
        public Book (int booked, String bookName, double price) {
            this . booked = booked;
             this. bookName = bookName;
            this. price = prices
        public String bushing () {
            return "Book ID: "+ book Id+", Book Name: "+ book Name +", Price: $"
                    Aprice;
         public boolean equals (Book other) [
            return this price = = other price;
  public class Main ?
        public static void main (String [] args) {
          Book book = new Book (1, "Java Programming", 50.0);
          Book book 2 = new Book (2, "Python Programming", 40.0);
          if (books. equals (books)) f
               System.out. println ("Both books have the same price");
           else {
               System. out. println ("Both have different prices.");
           System. out . println ("Book 1 Details: ");
           System. out. println (books);
           System. out. println ("Book 2 Detaili:");
           System, out println (book2);
```

Name:

Regd. Number:

Regd. Number: 2241013187

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Output
                                 135 mm. 15 mm.
Books have different prices.
Book 1 Details:
BookID: 1, Book Name: Java Programming, Price: $50.0
Book 2 Details:
Book 10:2, Book Name: Python Programming, Price: $40.0
($) import java util *;
   class Car implements Comparable (Car){
        String model;
                                 tach Ban year Was Mission
      String color;
                         West of Years, Mas & west, many
        int speed;
        public Car (String model, String color, int speed) {
            this model = model;
            this color = color;
            this . speed = speed;
       public int compare To (Car other) {
           return Integer, compare Othis speed, other speed);
       public String to String() {
            return "car: "+model + "("+color+"), Speed: "+speed+"km/h";
                                       B 1.15 BH - 1
   public class Main f
         public static void main (String [] args) {
           Car carl = new Car ("Pogota", "Blue", 100);
          Car courd = new Cour ('Honda", "Red", 200);
          System. out. println (carl. compare To (car2) < 0 ? card: carl);
             (Red), Speed; 200 km/h
```

Name: Sakruma Mishra

```
& import java. util. *;
    class Student implements Comparable (Student) {
        String names
        int rn;
        double total Mark:
        public Student (String name, int rn, double total Mark) {
               this name = name;
               this. rn = rn;
               this. totalMark = totalMark;
        public int compare To (Student other) {
             return Double. compare (this. total Mark, other. total Mark);
         public String to String () {
              return "Student {"+ "name = " "thame + '\' + ", ~n = "trn+
                      ", total Mark="+ total Mark+ '}';
    public class Main (
          Dublic static void main (String [] args) {
              Student [] students = { new Student ("Alice", 101, 85.5),
                                        new Student ("Bob", 102, 78.0),
                                        new Student ('Charlie', 103, 923) ?;
              Arrays. sort (students); ?
             double target Mark= 78.0;
              for (Student student: students) {
                if (student. total Mark == target Mark) {
                   system.out.println ("Found Student: "Istudent);
                  breaki
          Found student: Student (name = 'Bob', nn = 102, botal Nach = 78.0)
                                            Regd. Number:-
```

Name:

```
as>import java. util. *;
   class Student implements Comparable (Student) {
        String name;
        int rn;
        int total Mark;
        public Student (String name, int rn, int total Mark) {
            this name = name;
                                     inter class a solo sin
            this rn = rn:
            this · totalMark 2 totalMark;
        public int compare To (Student other) {
            neturn Integer, compare (this. rn, other. rn);
   Dublic class Main {
       public static void main (String [] ange) [
         Student [] students = { new Student ("Alice", 101, 85),
                                   new Student ("Bob", 102.78),
      William Gray & Block Herringer
 new Student C"Charlie", 103, 02);
                                   new Student ("David", 104,70) };
             Arrays. sort (students);
            System.out println ('Sorted student array by roll number
                               (rn):");
             for (Student student: student) {
               System.out.println (student.getName()+"(RN:"
                                  +student.getkn()+")");
 output
  Found student: Student [name = 'Bub', rn = 102, total Mark = 78.0]
```

```
66) class Animal <7> {
                                                                                the state of the Contract of the state of th
                              String name;
                              String color;
                              T type;
                               public Animal CString name, String color, Ttype) {
                                                       this name = name;
                                                       this color = color;
                                                       this. type = type ;
                                                                                                                                    and the later of the
                               public int houh Code () {
                                            return (name + color+ type). hash (ode ();
              public class Main {
                                        public das static void main (String Clarge) {
                                                Animal (String) BetDog = new Animal (> ("Buddy", "Brown", "Pet");
                                                Animal (String) wild Tiger = new Animal <> C'Simba", "black", "Wild");
                                               System.out. println ("Pet Dog Hash Code: "+ petDog. hash Code());
                                               System.out.println ("Wild Piger Hash Code:"+ wild Tiger. hash Code());
          STOPRING TOWN, The time the month of the Thing of the Things
         Pet Dog Hash Code: - - 954940209
      Output !-
        Wild Tiger Hash Code: - URa108498
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