```
5.
       package entity1;
       public class student implements comparable
                                             <student >
           private int id, pincode;
           private string name, genden, loc;
           private student() &
               this id = 0;
               this name = x
               this gender = "male"
               this. loc = "x";
               this . pincode = 0;
          public student (int id, string name, string gender,
                           string loc, int pincode)
          £
              this();
              this set ID (id);
              this, set Name (name);
              this, set Gender (gender);
               this. set loc (loc);
              this - set Pincode (pincode);
          public boolean set ID (int id) {
              if (id>0) {
                    this id = id;
                    return true;
              return false;
```

```
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public boolean set Nome (string name)
    If ( I name is Empty () && name | = null)
           this name = name
           return true;
      return false;
 3
 public boolean set Gender (string gender)
       if ( 1 gender, is Empty () se gender != null)
            this gender = gender;
            return true;
       return false;
 3
 public boolean set Loc (string loc)
      if ( 1 loc. is Empty () 22 loc [=null)
           this loc-loc;
            return true;
       return false;
 public boolean set Pincode (int Pincode) {
        If (pincode 20)
           this pincode = pincode;
            return true;
         return false;
  3
        string getID() {
  public
         return Integer to String (this id);
```

```
public string get l'incode () {
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      return Integer to string (this pincode);
 public string getNamel) {
     return this name to upper (asel);
 public string getGender () {
     return this gender toupper (ase ();
 3
 public string get Loc () {
      return this. loc. toupper (ase ();
 3
public string tostring () {
     String out = " )
     out + = String. format ("Id = 1/s 1/n, this.get [D())
   out + = String. format ("Name= 1/18 1/17, this get Name);
  out t = string. format ("herder-'(s (,n, this.get hender())
  out += string. format ("Location= 1/11/n)
                               this get loc ());
 out += string. brmat ("pincode = : (s:/n)
                             this get Pincode ());
  return out;
3
public int compare To (students) {
      int c= s-get Pincode () compare To (this.
                                       gctPincode());
    if (c==0) {
         c = this get Name (), compareTo (s.get Name()
```

```
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          if ( (==0) {
             (= S.getID().compareTo (this get ID());
          3
        3
        return L;
     }
  3
 package collector;
 import entity 1. Student;
 import java. util. *;
  public class collectors {
      private Array List < Student > std;
      public collectors () {
         std = new Array List < student > ();
public boolean add Std (students) {
          if (st=null)
           std.add(s.);
               return true;
       return false;
       3
       public string tostring () {
            string out : ")
            for (student s: std) {
                 out + = s. to String () >
            3
        return out;
```

```
Radhakrishna
   public void sortstds () {
        Collections sort (std);
   3
3
package
       enduser;
        entity 1. student;
import
        ĵava. util. *;
import
         collector collectors;
import
public class Vierclass {
    private static Scanner SC = new Scanner (system in)
   collectors 1= new collectors ();
   public etatic void main (string args [])
       vierclass u= new Userclass ();
        boolean repeat = true;
       while (repeat) {
          switch (u-mainmenu()) {
            case 1: v. insertstudent();
             break;
             case 2: U. display Student Destails ();
           breat;
            core 3: U. sort Students ();
             break; 1) mildered 21 more ton
            default: repeat = false;
                  Charles the sand them address
        3
```

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```
Podhaloushna
 public void insertstudents ()
    System, out println ("Fater Id") ?
     int id = sc. nextInt ();
     System.out. println ("Enter name");
     String name = sc.next();
   System out println ("Enter Gender: );
    string gender - sc. next();
   system out println ("Inter location: )/
     string location = sc. next(),
    system. Out println ("Enter pincode);
 int pincode = sc.nextIn+();
  student (id, name, gender, location, pinusde),
  1. add std (3);
public int mainmenu () {
  Rystem. Out println ("I. Add Student");
  System out println ( 2. Display students );
  System. out println ( "3. Sort students );
  system.out println (" Finter any other number
      to exit );
           sc.nextInt();
  return
3
public void bortstudents () {
      1. sort Stds ();
   System out minth ("**** forted by pincode
      Name and ID *** ();
```

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```
void displaystudent Details () {
public
    Systemiout println (1);
```