Program 6:

create a database as student and database as Student(s is capital in the table name)

Project Structure:

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Wy_Hibernate

W src

Improduct_Main.java

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```

Student.java

```
package my.StudentBean;
//import
@Entity
@Table(name = "Student")
public class Student {
       @Id
       int id;
       @Column
       int totalmarks;
       @Column
       String usn, name, address;
       public int getId() {
              return id;
       public void setId(int id) {
              this.id = id;
       public int getTotalmarks() {
              return totalmarks;
       }
```

```
public void setTotalmarks(int totalmarks) {
              this.totalmarks = totalmarks;
       public String getUsn() {
              return usn;
       public void setUsn(String usn) {
              this.usn = usn:
       public String getName() {
              return name;
       public void setName(String name) {
              this.name = name:
       public String getAddress() {
              return address;
       public void setAddress(String address) {
              this.address = address;
       }
       @Override
       public String toString() {
              return "Student [id=" + id + ", totalmarks=" + totalmarks + ", usn=" + usn + ",
name=" + name + ", address=" + address + "]";
}
Student Main.java
package my.StudentBean;
//imports
public class Student Main {
       SessionFactory sc = new
Configuration().configure("hibernate.cfg.xml").buildSessionFactory();
       Session session = sc.openSession();
       Transaction t = session.beginTransaction();
       public void insert(int id, String usn, String name, String address, int totalmarks) {
              Student s = new Student();
              s.setId(id);
              s.setName(name);
              s.setAddress(address);
              s.setTotalmarks(totalmarks);
              s.setUsn(usn);
              session.save(s);
              t.commit();
       }
       public void delete(String usn) {
```

```
Query q = session.createQuery("delete from student where usn = :usn");
       q.setParameter("usn", usn);
       int status = q.executeUpdate();
       if (status == 0) {
               System.out.println(usn + " Deleted successfully");
       } else {
               System.out.println(usn + " not found");
}
public void display() {
       Query q = session.createQuery("from Student");
       <u>List 1 = q.getResultList();</u>
       Iterator it = 1.iterator();
       System.out.println("List of Students:");
       while (it.hasNext()) {
               Student s = (Student) it.next();
               System.out.println(s.toString());
       }
}
public void search(String usn) {
       Query q = session.createQuery("from student where usn = :usn");
       q.setParameter("usn", usn);
       <u>List</u> 1 = q.getResultList();
       if (l.isEmpty()) {
               System.out.println("Not Found");
       } else {
               Iterator it = l.iterator();
               System.out.println("Student Details:");
               while (it.hasNext()) {
                       Student s = (Student) it.next();
                       System.out.println(s.toString());
               }
       }
}
public static void main(String[] args) {
       Student Main sm = new Student Main();
       Scanner sc = new Scanner(System.in); // creating object of Scanner class
       lp: while (true) // labeling the while loop
               // displaying the menu
               System.out.println("1: Insert");
               System.out.println("2: Delete");
               System.out.println("3: Search");
               System.out.println("4: Display");
               System.out.println("7: exit");
               System.out.print("Make your choice: ");
               int ch = sc.nextInt(); // reading user's choice
               switch (ch) {
```

```
System.out.print("Enter the Student Details to insert \n");
                           System. out. print("Enter the Student id \n");
                           int id = sc.nextInt();
                           System.out.print("Enter the Student usn \n");
                           String usn = sc.next();
                           System.out.print("Enter the Student name \n");
                           String name = sc.next();
                           System.out.print("Enter the Student address \n");
                           String add = sc.next();
                           System.out.print("Enter the Student totalmarks \n");
                           int tm = sc.nextInt();
                           sm.insert(id, usn, name, add, tm);
                           break:
                    case 2:
                           System.out.print("Enter student id to delete\n");
                           System. out. print("Enter the Student id \n");
                           usn = sc.next();
                           sm.delete(usn);
                           break:
                    case 3.
                           System.out.print("Enter student id to search\n");
                           System.out.print("Enter the Student id \n");
                           usn= sc.next();
                           sm.search(usn);
                           break:
                    case 4:
                           sm.display();
                           break;
                    case 7:
                           break lp;
                    default:
                           System.out.println("Invalid choice! Please make a valid choice. \n\n");
                    }
             }
      }
}
hibernate.cfg.xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
             "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
             "http://hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory>
    property name="hibernate.connection.driver class">com.mysql.cj.jdbc.Driver/property>
    connection.password">rvce/property>
    cproperty name="hibernate.connection.url">jdbc:mysql://localhost:3306/student/property>
    property name="hibernate.connection.username">root/property>
```

case 1: // for Right Angled Triangle