# SOLUTION-:

1)

```java
import java.util.*;
public class Unique {

    void UniqueString()
    {
        String StringArray[]={"abc","def","ABZ","ASD","Abc"};
        int n=StringArray.length;
        //ArrayList<Integer> list=new ArrayList<>();
        Set<String> hs=new HashSet<>();
        for(int i=0;i<n;i++)
        {
            if(hs.contains(StringArray[i].toLowerCase()))
            {
                continue;
            }
            else
            {
                hs.add(StringArray[i]);
            }
        }

    }
```

```java
        public static void main(String[] args) {

                // TODO Auto-generated method stub

                Unique u=new Unique();

                u.UniqueString();


        }


}


2)
abstract class Market {


  // abstract method
  abstract void getPrice();
  abstract void getProductName();




}


4)


public class SumIsPresent {

        static boolean search(int arr[], int n, int x)

  {

     for (int i = 0; i < n; i++) {
```

```java
        if (arr[i] == x)
            return true;
    }



    return false;
}


    public static void main(String[] args) {
        // TODO Auto-generated method stub
        int a[]= {2,5,8,9,0,1,7,10};
        for(int i=0;i<a.length;i++)
        {
                int sum=a[i];
                for(int j=i+1;j<a.length;j++)
                {
                        sum+=a[j];
                        if(search(a,a.length,sum))
                        {
                                System.out.println("("+a[i]+","+a[j]+")");
                        }


                }
        }


    }
```

```
}




3)

import java.util.*;

public class SecondLargest {


        public static void main(String[] args) {

                // TODO Auto-generated method stub

                Scanner sc=new Scanner(System.in);

                System.out.println("number of elements");

                int n=sc.nextInt();

                int arr[]=new int[n];

                for(int i=0;i<n;i++)

                {

                        arr[i]=sc.nextInt();

                }

                int temp;

                 for(int i = 0; i<n; i++ ){

                for(int j = i+1; j<n; j++){


                 if(arr[i]>arr[j]){

                   temp = arr[i];

                   arr[i] = arr[j];
```

```java
            arr[j] = temp;

        }

      }

    }
    System.out.println("Third second largest number is:: "+arr[n-2]);



}


}
```

Sql


1)     CREATE TABLE Subject(

    id VARCHAR(10) PRIMARY KEY,

        rollno INT,

        subname VARCHAR(20),

        marks INT

);


CREATE TABLE Student(

    id VARCHAR(10),

        rollno INT,

        sname VARCHAR(20),

        address VARCHAR(50),

        FOREIGN KEY(id) REFERENCES Subject(id)

);

INSERT INTO Subject VALUES('A01', 2863, 'Maths', 80);

INSERT INTO Subject VALUES('A02', 2864, 'Physics', 90);

INSERT INTO Subject VALUES('A03', 2865, 'Chemistry', 50);

INSERT INTO Subject VALUES('A04', 2866, 'Biology', 70);

INSERT INTO Subject VALUES('A05', 2867, 'History', 60);


INSERT INTO Student VALUES('A03', 2865, 'Deba', 'Bbsr');

INSERT INTO Student VALUES('A04', 2866, 'Hari', 'Bam');

INSERT INTO Student VALUES('A04', 2866, 'Alok', 'Rgd');

INSERT INTO Student VALUES('A01', 2863, 'Harsh', 'Kpt');


SELECT subname, COUNT(id) AS 'Total Students' FROM Subject

WHERE subname = 'Biology'

GROUP BY subname;


SELECT SUM(marks) AS TotalMarks FROM Subject, Student

WHERE Subject.id = Student.id

AND sname = 'Deba';


2)      CREATE TABLE Product(

    id INT PRIMARY KEY,

```sql
        name VARCHAR(30),

        price INT,

        location VARCHAR(30)

);


CREATE TABLE manufacturer(

    id INT,

        company_name VARCHAR(30),

        product_id VARCHAR(5),

        address VARCHAR(20),

        FOREIGN KEY(id) REFERENCES Product(id)

);


INSERT INTO Product VALUES(1, 'DEBABRATA PANDA', 100, 'BHUBANESWAR');

INSERT INTO Product VALUES(2, 'HARISHANKAR ROUT', 200, 'BERHAMPUR');

INSERT INTO Product VALUES(3, 'SOHAN SAHOO', 50, 'JEYPORE');

INSERT INTO Product VALUES(4, 'GAURAV BEHERA', 300, 'SAMBALPUR');

INSERT INTO Product VALUES(5, 'RITESH SENAPATI', 70, 'PURI');


INSERT INTO manufacturer VALUES(2, 'IBM', 'A01', 'HYDERABAD');

INSERT INTO manufacturer VALUES(3, 'Microsoft', 'A02', 'PATNA');

INSERT INTO manufacturer VALUES(3, 'GOOGLE', 'A03', 'UDAIPUR');

INSERT INTO manufacturer VALUES(1, 'APPLE', 'A04', 'JAMSHEDPUR');

INSERT INTO manufacturer VALUES(4, 'TCS', 'A05', 'BHUBANESWAR');


SELECT company_name FROM Product, manufacturer

WHERE Product.id = manufacturer.id
```

AND product_id = 'A02';


HTML


```html
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>ABC</title>
 </head>
 <body>
  <header style="margin-top: 50px; display: flex">
    <div style=" background-color: red;width:60vh; text-align: center;" >
    <img  src="https://tse4.mm.bing.net/th?id=OIP.gfyDNK8piTH7qayJibqHBgAAAA&pid=Api&P=0" alt="logo" />
    </div>
    <h1 style="font-size: 60px; text-align: center; background-color: green">SIKSHA `O` ANUSANDHAN</h1>
  </header>
  <main style="display: flex; margin-top: 100px">
   <div style="flex: 1">
    <ul style="list-style-type: none; margin: 50px">
     <li style="padding: 3px"><a href="">Sign Up</a></li>
     <li style="padding: 3px"><a href="">Home</a></li>
     <li style="padding: 3px"><a href="">Product</a></li>
     <li style="padding: 3px"><a href="">Help</a></li>
```

```html
      </ul>
    </div>

    <div style="flex: 1; margin-right: 200px; background-color: skyblue"> <table
style="width:100vh; text-align: center; margin: 50px">

<thead>
      <tr>
       <th>product_id</th>
       <th>product_name</th>
       <th>price</th>
       <th>location</th>
      </tr>
     </thead>
     <tbody>
      <tr>
       <td>1</td>
       <td>Apple</td>
       <td>10000</td>
       <td>Banglore</td>
      </tr>
      <tr>
       <td>2</td>
       <td>Redmi</td>
       <td>11000</td>
       <td>Chennai</td>
      </tr>
      </tr>
```

```html
      <tr>
        <td>3</td>
        <td>Xiaomi</td>
        <td>12000</td>
        <td>Mumbai</td>
      </tr>
      </tr>
      <tr>
        <td>4</td>
<td>Vivo</td>
          <td>13000</td>
          <td>Banglore</td>
        </tr>
        </tr>
        <tr>
          <td>5</td>
          <td>Oppo</td>
          <td>14000</td>
          <td>Hyderabad</td>
        </tr>
      </tbody>
      <tfoot>
        <tr>
          <td>6</td>
          <td>Lava</td>
          <td>15000</td>
          <td>Delhi</td>
```

```
      </tr>

     </tfoot>

   </table></div>

  </main>

  <footer style="text-align: center; margin-top: 100px; background-color: green">THE
END</footer>

 </body>

</html>
```