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)

```java
abstract class Market {


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




}
```

4)

```java
public class SumIsPresent {
        static boolean search(int arr[], int n, int x)
  {
     for (int i = 0; i < n; i++) {
```

```java
        // Return the index of the element if the element
        // is found
    if (arr[i] == x)
        return true;
  }


  // return -1 if the element is not found
  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];

                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),
```

```sql
            FOREIGN KEY(id) REFERENCES Subject(id)
);


INSERT INTO Subject VALUES('A001', 2863, 'Maths', 80);

INSERT INTO Subject VALUES('A002', 2864, 'Physics', 90);

INSERT INTO Subject VALUES('A003', 2865, 'Chemistry', 50);

INSERT INTO Subject VALUES('A004', 2866, 'Biology', 70);

INSERT INTO Subject VALUES('A005', 2867, 'History', 60);



INSERT INTO Student VALUES('A003', 2865, 'Yash', 'bbsr');

INSERT INTO Student VALUES('A004', 2866, 'Aman', 'jsg');

INSERT INTO Student VALUES('A004', 2866, 'Ayush', 'jsr');

INSERT INTO Student VALUES('A001', 2863, 'Harsh', 'sng');


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

WHERE subname = 'Biology'

GROUP BY subname;


SELECT SUM(marks) AS TotMarks FROM Subject, Student

WHERE Subject.id = Student.id

AND sname = 'Yash';
```

```sql
2)      CREATE TABLE Product(
    id INT PRIMARY KEY,
        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, 'Yash', 100, 'bbsr');
INSERT INTO Product VALUES(2, 'Aman', 200, 'jsg');
INSERT INTO Product VALUES(3, 'Anurag', 50, 'jsr');
INSERT INTO Product VALUES(4, 'Ayush', 300, 'sng');
INSERT INTO Product VALUES(5, 'Harsh', 70, 'bjr');

INSERT INTO manufacturer VALUES(2, 'Virtusa', 'A01', 'khandagiri');
INSERT INTO manufacturer VALUES(3, 'Microsoft', 'A02', 'Patia');
INSERT INTO manufacturer VALUES(3, 'Hexaware', 'A03', 'Udaygiri');
INSERT INTO manufacturer VALUES(1, 'Informatica', 'A04', 'Jagmohan Nagar');
INSERT INTO manufacturer VALUES(4, 'Meta.net', 'A05', 'Bapujinagar');
```

```sql
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">
      <img style="background-color: red" src="
https://tse4.mm.bing.net/th?id=OIP.gfyDNK8piTH7qayJibqHBgAAAA&pid=Api&P=0"
 alt="logo" />
      <h1 style="font-size: 60px; margin-left: 450px; background-color: green">ABC
Products</h1>
    </header>
    <main style="display: flex; margin-top: 100px">
      <div style="flex: 1; background-color: skyblue">
        <ul style="list-style-type: none; margin: 50px">
          <li style="padding: 3px"><a href="">Link 1</a></li>
          <li style="padding: 3px"><a href="">Link 2</a></li>
          <li style="padding: 3px"><a href="">Link 3</a></li>
```

```
        <li style="padding: 3px"><a href="">Link 4</a></li>

        <li style="padding: 3px"><a href="">Link 5</a></li>

        <li style="padding: 3px"><a href="">Link 6</a></li>

      </ul>

    </div>

    <div style="flex: 1; margin-right: 200px; background-color: rgb(253, 255, 110)"> <table
style="width:100%; 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>Product 1</td>

        <td>100</td>

        <td>Bhubaneswar</td>

      </tr>

      <tr>

        <td>2</td>

        <td>Product 2</td>

        <td>110</td>

        <td>Bhubaneswar</td>
```

```
      </tr>

      </tr>

      <tr>

       <td>3</td>

       <td>Product 3</td>

       <td>120</td>

       <td>Bhubaneswar</td>

      </tr>

      </tr>

      <tr>

       <td>4</td>

<td>Product 4</td>

          <td>130</td>

          <td>Bhubaneswar</td>

       </tr>

       </tr>

       <tr>

        <td>5</td>

        <td>Product 5</td>

        <td>140</td>

        <td>Bhubaneswar</td>

       </tr>

     </tbody>

     <tfoot>

      <tr>

       <td>6</td>

       <td>Product 6</td>
```

```html
        <td>150</td>

        <td>Bhubaneswar</td>

      </tr>

    </tfoot>

  </table></div>

</main>

<footer style="text-align: center; margin-top: 100px; background-color: green">All rights reserved. ABC Products</footer>

</body>

</html>
```