

SOLUTION-:

1)

```
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]);
            }
        }
    }
}
```

```

    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++) {

```

```

        // 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),

```

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', 'jsr');

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';

```
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, 'jsr');  
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');
```

```
SELECT company_name FROM Product, manufacturer
WHERE Product.id = manufacturer.id
AND product_id = 'A02';
```

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">
      
      <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>
```

```
<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>
```