1. import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("Enter the size");

int n=sc.nextInt();

String s[]=new String[n];

System.out.println("Enter the elements in array");

for(int i=0;i<s.length;i++) {

s[i]=sc.next();

}

HashSet<String> str=new HashSet<String>();

for(int i=0;i<s.length;i++) {

str.add(s[i].toLowerCase());

}

System.out.println(str);

}

}

***2.***public class Main {

    public static void main(String[] args) {

        Product pr = new Product();

        pr.getProductName();

        Price p = new Price();

        p.getPrice();

    }

}

abstract class Market{

    abstract void getPrice();

    abstract void getProductName();

}

class Price extends Market{

    @Override

    public void getPrice(){

        System.out.println("The price is "+20);

    }

    @Override

    public void getProductName(){

    }

}

class Product extends Market{

    @Override

    public void getProductName(){

        System.out.println("Product = Maggi");

    }

    @Override

    public void getPrice(){

    }

}

***3.***import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

System.out.println("Enter the size of array");

int size=sc.nextInt();

int array[]=new int[size];

System.out.println("Enter elements to array");

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

array[i]=sc.nextInt();

}

int temp;

      for(int i = 0; i<size; i++ ){

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

            if(array[i]>array[j]){

              temp = array[i];

              array[i] = array[j];

              array[j] = temp;

            }

        }

      }

      System.out.println("second largest number is:: "+array[size-2]);

}

}

***4.***public class Main {

    public static void main(String[] args) {

        int arr[] = {5,6,7,8,9,1,2,13};

        for(int i=0;i<arr.length;i++)

        {

            for(int j=i+1;j<arr.length;j++)

            {

                for(int k=0;k<arr.length;k++)

                {

                    if(arr[i]+arr[j]==arr[k])

                    {

                        System.out.println(arr[i]+" "+arr[j]);

                    }

                }

            }

        }

    }

}

*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', 90);

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

INSERT INTO Subject VALUES('A003', 2865, 'Chemistry', 60);

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

INSERT INTO Subject VALUES('A005', 2867, 'History', 80);

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';

1. 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');

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>WEBPAGE</title>

    <style>

        div.container{

        display:grid;

        grid-template-columns:18% 78%;

        grid-gap:10px;

        }

        div.nested-item{

        display:grid;

        grid-template-columns:repeat(1,1fr);

        grid-template-rows: 75px 420px 75px;

        }

        div.main-section{

        display:grid;

        grid-template-columns:30% 20%;

        grid-gap:10px;

        }

        div.item2{

        background-color:green;

        padding:10px;

        }

        div.item3{

        background-color:skyblue;

        padding:10px;

        }

        div.item4{

        background-color:rgb(169, 205, 50);

        padding:10px;

        }

    </style>

</head>

<body>

    <div class="container">

        <div class="item1" id="nav" >

          <img src="img3.jpg" alt="This is a logo"  width="100"><br>

            Sign up<br>

          Home<br>

          Product<br>

          Help

        </div>

        <div class="nested-item">

          <div class="item2" id="header">

            SITE NAME

          </div>

          <div class="main-section">

            <div class="item3" id="artical">

              CONTENT

            </div>

            <div class="item4" id="ads">

            </div>

          </div>

          <div class="item2" id="footer">

              Footer

          </div>

        </div>

      </div>

</body>

</html>