Questions

JAVA

1. Find unique strings in an array of strings?

Input

strArray = {"abc", "def, "ABZ", "ASD", "AbC"};

Similar strings - include case insensitive

output - "abc", "def","ABZ","ASD"

Solution :
```
 // Java program to implement
// the above approach
import java.io.*;
import java.util.*;

class GFG{

// Function to find the distinct strings
// from the given array
static void findDisStr(List<String> arr, int N)
{

    // Stores distinct strings
    // from the given array
    Set<String> DistString = new HashSet<String>();

    // Traverse the array
```

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

                // If current string not
                // present into the set
                if (!DistString.contains(arr.get(i)))
                {

                        // Insert current string
                        // into the set
                        DistString.add(arr.get(i));
                }
        }

        // Traverse the set DistString
        for(String string : DistString)
        {

                // Print distinct string
                System.out.print(string + " ");
        }
}

// Driver code
public static void main(String[] args)
{
        List<String> arr = Arrays.asList(new String[]{
                "Geeks", "For", "Geeks", "Code", "Coder" });

        // Stores length of the array
        int N = arr.size();

        findDisStr(arr, N);
}
}
```

2. Write a program in Java to create an abstract class market. There are two methods getPrice() and getProductName() as abstract method.
Solution:

```java
abstract class Market{

 // abstract method 1
 abstract void getPrice();
 // abstract method 2
 abstract void getProductName();


}
```

3. Write a program in Java to find 2nd largetst number in an array of Strings ?

```java
import java.io.*;
import java.util.*;

class  SecondLargest{

    public static void main(String[] args)
    {
        List<String> arr = Arrays.asList(new String[]{
            "Geeks", "For", "Geeks", "Code", "Coder" });
        Collections.sort(arr);
        System.out.println(arr.get(1));


    }
}
```

4.Write a program in Java to find pair of numbers whose sum is a number present in an array of integers?

Example - { 2, 5 ,8 ,9, 0,1, 7 , 10}

 Output - (2,5), (9,1) ,(0,1)

```java
public class HelloWorld {
   public static void main(String[] args) {
      int arr[]= {2,5,8,9,0,1,7,10};
      boolean isSum=false;
      int check=0;
      while (check<arr.length-1) {
            for(int i=check+1; i<arr.length; i++) {
               if(arr[i]==0) {
                     continue;
               }
               int sum=arr[check]+arr[i];
               if(isPresent(arr,sum,i)==true) {
                     System.out.println(arr[check]+","+arr[i]);
                     break;
               }
            }
            check++;
      }
   }

   public static boolean isPresent(int arr[], int sum,int i) {
      for(int k=i; k<arr.length; k++) {
            if(arr[k]==sum) {
                  return true;
            }
      }
            return false;

   }
```

<u>SQL</u>
2. create and execute the sql in the tables(mentioned below)

<u>Tables</u>
Subject (id , rollno, subjectname , marks)

Student (id, rollno, sname, address)

Write a SQL query to find the count of all students studying a paticular subject?

Write a SQL query to find total marks of a particular student for all subjects?

create table subject(id varchar(10), rollno int, subjectname varchar(20), marks int);
create table student(id varchar(20), rollno int, sname varchar(20), address varchar(20));

Select distinct subjectname, count(sname)
from student as p
inner join subject as q
on p.id=q.id
group by subjectname

Select distinct sname, sum(marks)
from student as p
inner join subject as q
on p.id=q.id
group by sname
2)

 product(id, name , price ,location)

manufacturer(id, company_name, product_id, address)

.

Write a SQL query to find company_name of a particular product and location given input as product _id?

(Use Join statements)

```sql
. create table product(
      id int,
   name varchar(20),
   price int,
   location varchar(20)
);
create table manufacturer(
      id int,
   company_name varchar(20),
   product_id int,
   address varchar(20)

);
Select company_name, location
from manufacturer as p
inner join product as q
on p.id=q.id
```

HTML

Design an html page with following layout as mentioned below (Include CSS as mentioned in diagram color) include table inside content section

```html
<!DOCTYPE html>
<html lang="en">
```

```html
<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="/abc-products.jpeg" 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>
          <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>
```

Table-1

product_id	product_name	price	location

LOGO   SITE NAME

Signup

Home

Product

Help

CONTENT