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”

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

Ans. abstract class market{

abstract double getPrice();

abstract String getProductName();

}

class Lays extends market{

double getPrice() {

return 10.0;

}

String getProductName() {

return "Lays";

}

}

class keychain extends market{

double getPrice() {

return 67.5;

}

String getProductName() {

return "Limited edition";

}

}

public class TestAbstract {

public static void main(String[] args) {

market m;

m = new Lays();

System.out.println(m.getProductName()+" "+m.getPrice());

m = new keychain();

System.out.println(m.getProductName()+" "+m.getPrice());

}

}

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

Ans. import java.util.\*;

public class stringsum {

public static void main(String[] args)

{

String str1 = "[1,2,3,4,5,12,11]";

String[] string = str1.replaceAll("\\[", "").replaceAll("]", "").split(",");

int[] arr = new int[string.length];

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

arr[i] = Integer.valueOf(string[i]);

}

System.out.println("String : " + str1);

System.out.println("\nInteger array : "+ Arrays.toString(arr));

int temp;

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

{

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

{

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

{

temp = arr[i];

arr[i] = arr[j];

arr[j] = temp;

}

}

}

System.out.println(arr[arr.length - 2]);

}

}

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)

SQL

2. create and execute the sql in the tables(mentioned below)

Tables

Subject (id , rollno, subjectname , marks)

Student (id, rollno, sname, address )

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

Ans. SELECT COUNT(s1.id), s2.subjectname

FROM s1.Student INNER JOIN s2.Subject

ON s1.id = s2.id

GROUP BY s2.subjectname(SELECT s2.subjectname,

FROM s2.Subject);

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

Ans. SELECT s1.COUNT(marks), s2.id

FROM s2.Student INNER JOIN s1.Subject

ON s1.id = s2.id

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)

HTML

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

Table-1

| product\_id | product\_name | price | location |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |



-> <html>

<head>

<title>VirtusaTraining</title>

</head>

<body>

<div id="header">

<img src="C:\Users\acer\Downloads\user.png" width="40px" height="40px">

<h3 style="text-align:center">Training</h3>

</div>

<div>

<ul>

<li>

<a href="2.html">Home</a>

</li>

<li>

<a href="3.html">About Us</a>

</li>

<li>

<a href="4.html">Contact</a>

</li>

<li>

<a href="5.html">Support</a>

</li>

<li>

<a href="6.html">Other Links</a>

</li>

</ul>

</div>

</body>

</html>