**Arrays**

**Date:25-Aug-2020**

**Single-Dimensional Array**

1. Write a Java program that finds the even elements between two arrays and creates a third array with those elements.
2. You are an organizer of a technical symposium in your college. You have two participants list that consists of name of the students registered for online quiz and paper presentation. Write a java program that creates two array for storing the names of participants registered for online quiz and paper presentation. The program should list all the names of participants who have registered for both quiz and paper presentation.

**Multi-dimensional Array**

1. The Sports in charge submits a purchase list of equipment’s for a tournament. There are two teams Women Team and Men Team. The list of items to be purchased and its cost are given in the tables below,

|  |  |  |  |
| --- | --- | --- | --- |
|  | Bat | Ball | Sports Uniform |
| Women | 11 | 35 | 12 |
| Men | 14 | 45 | 18 |

|  |  |
| --- | --- |
|  | Price ( ₹) |
| Bat | 2000 |
| Ball | 100 |
| Sports Uniform | 1000 |

Write a java program to find the total cost of equipment for each team.

[Hint: Use appropriate mathematical computations.]

1. In a bakery there are “n” rectangular bowlsof length “L” and depth “H”, represented as {L, H}. You are asked to stack all the bowls by fitting a small bowl inside the big bowl. A bowl will fit into the other only if its depth and width is smaller than the other. Write a Java program that finds the maximum number bowl that can be placed in another bowl.

**Example:**

**Input: Bowl** [] = {{2, 5}, {4, 3}, {3, 7}, {5, 8}, {9, 6}, {11, 11}}  
**Output:** 4

**Explanation:** The maximum number of bowl that can be placed inside another bowl is 4.  
 ({2, 5}, {3, 7}, {5, 8}, {11, 11})