

Winter Semester 2020-21
CSC3001-Java Programming
DA-III

Faculty	P.Ushapreethi
Due Date	18-Apr-2021
Marks	10

1. Addison High School is holding a fundraiser. The freshmen, sophomores, juniors, and seniors hold a competition to see which class contributes the most money. Write a program that allows you to enter two numbers for each contribution as it comes in—the class of the contributor (1, 2, 3, or 4), and the amount contributed in dollars. For example, perhaps a junior contributes \$20. The user would enter a 3 and a 20. The program continues to accept data until the user types 999 for the contributor's class. At that point, data entry is completed, so display the four class totals as well as the number of the class (1, 2, 3, or 4) that contributed the most.
2. Write a function `void split (int array[], int pivot)` to partition the given array into two parts: one with all elements whose values are \leq pivot and the other one with all elements whose values are $>$ pivot. The array should be partitioned in place. For example, if the array is

13 -42 8 35 -7 46 28 -19

and the pivot given is 10, then the function should turn the array above into

-19 -42 8 -7 35 46 28 13

Within which all elements before pivot are \leq 10 and all elements after pivot are $>$ 10.
Write a main function to test your function.

Note:

1. Complete the java code, compile, and run it in any one of the java compiler.
2. Document the Java code and the screenshots of the outputs and upload it.