Demonstrating Array Operations in Write a Java program to find the largest number in an array. The program should take an integer away as input From the user and display the largest number. Implement handling for edge cases such as an empty away. To demenstrate away manipulation techniques in Java Buch as Sinding the largest number in an average Objective! To orderstand how aways work in Jara and how to perform aperations on aways, such as studing the maximum value. import jaro. util. ecanner; public class Array For { public stotic void main (string [] argo) {

Bearner See new Scenner (eystem.in); Bystem. out. printle ("Buter size of avoidy"):

n= Se next In+ ()1 3(0==n) fi Byslew. out. printle ("Array is emply"). int (Jarr = new int [n];

System out. println ("Enter elements of
away"); for (int i= a; ich; i+){ arr [i] : Bc. next Ent (); int mase = arr [0]; for (int i= 0 ; ixm; i++) { if (arrij zmax) { maxe arreli]; Gysten. out. printle ("largest number i'n array: "+mase): 1 est cases '-Test case !! retest Name: - Largest Number in Positive or Enput! - Array = { 2,3,5,1,4} -> Expected result: largest number in the away: 5"

- Actual result! "Largest number -7 Pass Faill :- Pass. l'est case :2 + Test case : Empty Array, -> Enput: Array = e? > Expected result : "Array is empty!" -> Actual result "Array is empty"! - Pass Fail :- Pass. Test case 13. -> Test Name: Array with Negative -> Exput + Array: {-3,-5,-2,-1} > Expected result: "largest number it array :- 1" - Thatoal resultin "largest rumber i'm away! -7 Park Faill :- Pars. Concluerón. This program demonstrates how to monipolate average in Java. Et finds the largest number in the away by Comparing each elevent. The Spragram r ofse Lights the importance of Whendling edge case like empty