

LABCYCLE: 2  
EXPERIMENT NO:1

Date:03/04/2023

## TOTAL MARKS OBTAINED BY STUDENT

### AIM

Write a java program to which access mark of a student into a one dimensional array from keyboard. calculate and display total marks,% obtained by student.

### Algorithm

- 1.Start
- 2.Define a class student
- 3.Declare variables n,total=0,percentage
- 4.Read the marks and display it
- 5.Read the input marks for each subject and it to total variable
- 6.Calculate the percentage of marks obtained by student
- 7.Display total mark and percentage.
- 8.Stop

### RESULT:

Program run successfully and output is obtained.

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EXPERIMENT NO:2

Date:03/04/2023

## SORT STRING

### AIM

Write a java program to sort strings

### Algorithm

- 1.Start
- 2.Define a class sortstring
- 3.Declare an array of string
- 4.Get the length of array
- 5.Compare adjacent elements in the array using compareTo method of stringclass
- 6.If result of comparison is greater than zero,swap elements
- 7.Display sort string
- 8.Stop

### RESULT:

Program run successfully and output is obtained.

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Date:10/04/2023

EXPERIMENT NO:3

## SORT STRING CHARACTER

### AIM

Write a java program to sort characters from a string

### Algorithm

- 1.Start
- 2.Define a class sort character
- 3.Read a string
- 4.find the length of character
- 5.Iterate over all elements of array
- 6.If result of comparison is greater than zero,swap elements
- 7.Display sort string
- 8.Stop

### RESULT:

Program run successfully and output is obtained.

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EXPERIMENT NO:4

Date:10/04/2023

## ARRAY SEARCH

### AIM

Write a java program to search an element in an array

### Algorithm

- 1.Start
- 2.Define a class search
- 3.prompt the user to enter the size of array and read the input
- 4.Create an integer array of specified size
- 5.prompt the user to enter the elements of the array and read each element into it
- 6.Read the input from user to search the element
- 7.Initialize f=0
- 8.Search for the number in the array
- 9.If number is found,print its position and f=1
10. If number is not found,print “not found”
- 11.Stop

### RESULT:

Program run successfully and output is obtained.

LABCYCLE: 2  
EXPERIMENT NO:5

Date:10/04/2023

## STRING MANIPULATION

### AIM

Program to perform string manipulation using built in methods of string class and string buffer class.

### Algorithm

1. Start.
2. Define a class Stringmanipulate
3. Prompt the user to enter a string and read the input.
4. Prompt the user to enter another string for concatenate with original string and read the input.
5. concat() method is used for concatenation and then display the result.
6. Prompt the user to enter a character to replace it with a and read the input.
7. replace() method is used to replace all the occurrence of old character with new one. Display the newly formed string
8. Convert the original string into character array using 'toCharArray' method and then display each character of array.
9. length() method is used to find the length of the string
10. Prompt the user to enter the substring to search for in the original string.
11. indexOf() method used to find the first occurrence of substring in the original string and stores in 'index'.
12. If index is -1 then print the substring is not found. otherwise print the index.
13. toUpperCase() method is used to convert the string into upper case and print the result.
14. Prompt the user to enter a string for concatenation in StringBuffer using append() method. Display the concatenated string
15. length() method is used to find the length of string in StringBuffer and print the result.
16. insert() method insert the substring read from the user at specified position in the StringBuffer.
17. Stop.

**RESULT:**

Program run successfully and output is obtained.

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EXPERIMENT NO:6

Date:17/04/2023

## EMPLOYEE

### AIM

Write a program to create a class for employee having attributes eNumber,eName,salary.Read n employee information for an employee given eNumber using the concept of array of objects

### Algorithm

1. Start
2. Define a class 'employee'.
3. Initialize datamembers eno, ename, salary
4. Declare function getdetails().
5. Prompt the user to enter the details of employee like eno,ename and salary.
6. Declare another method disply().
7. Prompt the user to enter the number of employees.
8. Create an array of 'employee' objects with the size specified by the user.
9. Call getdetail() method for each employee to populate their information.
- 10.Prompt the user to enter the employee number to get the details of specified employee
- 11.Iterates over the array if matches found then print the details using display()
- 12.Stop

### RESULT:

Program run successfully and output is obtained.

