**CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY**

**DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH**

Department of Computer Engineering/Computer Science & Engineering/ Information Technology

**Subject Name: Object Oriented Programming with C++**

**Semester: II**

**Subject Code: CE144**

**Academic year: 2020-21**

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| **No.** | **Aim of the Practical** |
| **4.** | **Write a C++ program to add two floating numbers using pointer. The resultshould contain only two digits after the decimal. Use fixed, scientific and setprecision () manipulators for controlling the precision of floating point numbers.**  **PROGRAM CODE :**  #include <iostream>  using namespace std;  int arr\_add(int a[], int n)  {  static int sum = 0;  static int i = 0;  if (i < n)  {  sum = sum + a[i];  i++;  arr\_add(a, n);  }  return sum;  }  int main()  {  int n;  cout << "Enter The Size Of Array: ";  cin >> n;  int i, sum, a[n];  for (i = 0; i < n; i++)  {  cin >> a[i];  }  sum = arr\_add(a, n);  cout << "Sum is: " << sum;  }  **OUTPUT:**    **QUESTION: Show stepwise solution of winding and unwinding phase of recursion.**  **Winding phase**: In it the recursive function keeps calling itself. This phase ends when the base condition is reached.  **Unwinding phase**: When the base condition is reached, unwinding phase starts and control returns back to the original call.  **CONCLUSION:** In this practical we learn code using recursion and also winding and unwinding phase of recursion. |