**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** |
| **13.** | **Define a C++ Structure Rectangle with data member’s width and height. It has get\_values() member functions to get the data from user and area() member functions to print the area of rectangle. Also create a C++ Class for the above program. Define both functions inside the class. Member function defined inside the class behaves like an inline function and illustrate the difference between C++ Structure and C++ Class.**  **PROGRAM CODE :**  #include <iostream>  using namespace std;  struct Rectangle  {  float width, height;  void get\_values()  {  cout << "Enter the width: ";  cin >> width;  cout << "Enter the height: ";  cin >> height;  }  void area()  {  float area;  area = width \* height;  cout << "Area of rectangle is: " << area;  }  };  int main()  {  Rectangle r;  r.get\_values();  r.area();  }  **OUTPUT:**    **CONCLUSION:** In this practical we learnthe main difference between class and structure is that members of class are private and members of structure are public. Also we can define methods inside a class but not in structure. |