**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** |
| **16.** | **Define a class Dist with int feet and float inches. Define member function that displays distance in 1’-2.5” format. Also define member function scale ( ) function that takes object by reference and scale factor in float as an input argument. The function will scale the distance accordingly. For example, 20’-5.5” and Scale Factor is 0.5 then answer is 10’-2.75”**  **PROGRAM CODE :**  #include <iostream>  using namespace std;  class dist  {  int feet;  float inch;  public:  void display()  {  cout << "Enter feet: ";  cin >> feet;  cout << "Enter inch: ";  cin >> inch;  while (inch > 12)  {  feet = feet + 1;  inch = inch - 12;  }  cout << "Distance: " << feet << "'" << inch << "\"" << endl;  }  void scale(dist &d)  {  float sf;  cout << "Enter scale factor: ";  cin >> sf;  feet = feet \* sf;  inch = inch \* sf;  while (inch > 12)  {  feet = feet + 1;  inch = inch - 12;  }  cout << "Distance after scale with is: " << sf << feet << "'" << inch << "\"" << endl;  }  };  int main()  {  dist d;  d.display();  d.scale(d);  }  **OUTPUT:**    **CONCLUSION:** In this Practical we learn about how to scale the given distance into feet and inch scale. |