**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**

|  |  |
| --- | --- |
| **No.** | **Aim of the Practical** |
| **35.** | **Create one application a group of 3 person which implement all type of inheritance.**  **PROGRAM CODE :**  #include <iostream>  #include <iomanip>  using namespace std;  class University  {  public:  char university\_name[30], type[10];  void getdata()  {  cout << "Enter the University Name: ";  cin.getline(university\_name, 30);  cout << "Enter the Type of University (Goverment / Private): ";  cin.getline(type, 30);  }  void putdata()  {  cout << "University Name: " << university\_name << endl;  cout << "University Type: " << type << endl;  }  };  class Collage : public University  {  public:  char collage\_name[30], department\_name[25];  void gtdata()  {  cout << "Enter the Collage Name: ";  cin.getline(collage\_name, 30);  cout << "Enter the Department Name: ";  cin.getline(department\_name, 25);  }  void ptdata()  {  cout << "Collage Name: " << collage\_name << endl;  cout << "Department Name: " << department\_name << endl;  }  };  class Student : public Collage  {  public:  string id, mobile\_no, email;  char name[20];  void gdata()  {  cout << "Enter the Student Name: ";  cin.getline(name, 20);  cout << "Enter the Student ID: ";  cin >> id;  cout << "Enter the Student Mobile no: ";  cin >> mobile\_no;  cout << "Enter the Email ID: ";  cin >> email;  cout << endl;  }  void pdata()  {  cout << "Student Name " << name << endl;  cout << "Student ID: " << id << endl;  cout << "Student Mobile no: " << mobile\_no << endl;  cout << "Email ID: " << email << endl;  }  };  int main()  {  Student s;  s.getdata();  s.gtdata();  s.gdata();  cout << "\_\_\_\_\_\_\_\_\_\_Student Details\_\_\_\_\_\_\_\_\_\_" << endl;  cout << endl;  s.putdata();  s.ptdata();  s.pdata();  return 0;  }  **OUTPUT:**    **CONCLUSION:** In this practical we learnt how to use inheritance concept to make application. |