**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** |
| **23.** | **Write a C++ program having class time with data members: hr, min and sec.**  **Define following member functions.**  **1) getdata() to enter hour, minute and second values**  **2) putdata() to print the time in the format 11:59:59**  **3) default constructor**  **4) parameterized constructor**  **5) copy constructor**  **6) Destructor.**  **Use 52 as default value for sec in parameterized constructor.**  **Use the concepts of default constructor, parameterized constructor, Copy constructor, constructor with default arguments and destructor.**  **PROGRAM CODE :**  #include <iostream>  using namespace std;  class time  {  int hr, min, sec;  public:  void getdata()  {  cout << "Enter Hour, Miniute, Second: ";  cin >> hr >> min >> sec;  }  void putdata()  {  cout << "You Entered This Data: ";  cout << hr << ":" << min << ":" << sec << endl;  }  time()  {  cout << "This is Default Constructor..." << endl;  }  time(int h, int m, int s = 52)  {  hr = h;  min = m;  sec = s;  cout << "In Parameterized Constructor..."  << " " << hr << " : " << min << " : " << sec << endl;  }  time(const time &t2)  {  hr = t2.hr;  min = t2.min;  sec = t2.sec;  cout << "In Copy Constructor..."  << " " << hr << " : " << min << " : " << sec << endl;  }  ~time()  {  cout << "Delete The Constructor..." << endl;  }  };  int main()  {  time t;  t.getdata();  t.putdata();  time t1(11, 59);  time t2 = t1;  }  **OUTPUT:**    **CONCLUSION:** In this practical we learnt about the concepts of default constructor, parameterized constructor, Copy constructor, constructor with default arguments and destructor. |