**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** |
| **5.** | **Find error in the following code and give reasons for each error: Can we declare an array of references? Can we assign NULL value to reference variable? Is Reference variable a pointer variable? Can we declare a reference variable without initializing it? Does Reference Variable change the original value of variable?**  **#include <iostream>**  **using namespace std;**  **int main()**  **{**  **int no1 = 10, no2 = 12;**  **int &x = no1;**  **int &r;**  **int &c = NULL;**  **int &d[2] = {no1, no2};**  **cout << "x = " << x + 20;**  **cout << "no1=" << no1 + 10;**  **return 0;**  **}**  **Error:** int & r;  **Reason:** reference operator must be initialized.  **Error:** int & c = NULL;  **Reason:** reference operator cannot be initialized to null.  **Error:** int & d[2] = {no1,no2};  **Reason:** reference operators cannot be combined to form an array.  **PROGRAM CODE :**  #include <iostream>  using namespace std;  int main()  {  int no1 = 10, no2 = 12;  int &x = no1;  int &r = no2;  int &c = no1;  int d[2] = {no1, no2};  cout << "x = " << x + 20;  cout << "no1=" << no1 + 10;    return 0;  }  **OUTPUT:**    **CONCLUSION:** Learnt that a reference operator cannot be initialized to null and there cannot be an array of reference operator and a reference operator must be initialized. |