**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** |
| **12.** | **Write a function called power () that takes two arguments: a double value for n and an int for p, and returns the result as double value. Use default argument of 2 for p, so that if this argument is omitted, the number will be squared. Write a main () function that gets values from the user to test this function.**  **PROGRAM CODE :**  #include <iostream>  #include <math.h>  using namespace std;  double power(double n, int p = 2)  {  double ans;  ans = pow(n, p);    cout << "ans: " << ans;  }  int main()  {  double n;  int p;  cout<<"Enter the value of n: ";  cin>>n;  cout<<"Enter the value of p: ";  cin>>p;  if(p==0)  {  power(n);  }  else  {  power(n,p);  }  }  **OUTPUT:**    **CONCLUSION:** we can use the concept of default argument here and can give square value in answer even without passing argument with use of default argument. |