

GLS UNIVERSITY
GLS INSTITUTE OF COMPUTER APPLICATIONS
0301205 PRACTICAL ON IOOP
BCA Sem – II
Practical Assignment – V

List of Practical Programs:

1. Using a friend function, find the average of three numbers which are part of three different classes.
Write all necessary member functions and constructor for the classes.
2. Write a C++ program to create two classes. Find out largest object from the object of two different classes.
3. Write a C++ program to create two classes. Manager and scientist. Create common function which helps to calculate sum of their salary.
4. Create a product class which consist of product no, name, price, quantity and amount. Create 3 functions named getdata() for input from the user, displaydata() to display the details and calculate() to calculate amt = price * quantity. Enter the details for 5 products. Pass the object in the function.
5. Create class for student include data members like Rollno, name and different subjects like s1,s2 and s3 Make use of default constructor to assign default values to data members and display them using member function.
6. Create employee class include data member Empid, Name, Dep_name, Salary use constructor with argument to assign values to data members. Include necessary member functions for calculating salary and printing information.
7. Create class for student include data members like Rollno, name and different subjects like s1,s2 and s3. Make use of default constructor to assign default values and also make necessary constructors with arguments to assign values to data members and display them using member function.
8. Create employee class include data members Empid, Name, Dep_name, Salary use constructor overloading to assign values to data members. Include necessary member functions for calculating salary and printing information.
9. Create one class circle include pi, r variable and Function area() which calculates area. Make one object and access area using object. Also use functionality of constructor and destructor.
10. Constructor and destructor Program:
Write a C++ program to create a class complex having two integers real and imag.
The types of constructors to be used
i) Default Constructor
ii) One argument constructor
iii) Two arguments constructor
iv) Copy constructor. Show () and sum() functions are friend functions, displaying and finding the addition of two objects respectively.
11. Write a program that will find maximum of two variables of two different classes in an internal function of one class, also show the use of constructor to initialize the values.
12. Define currency class which contains rupees and paisa as data members. Write a friend function named AddCurrency () which add 2 different Currency objects and returns a Currency object. Write parameterized constructor to initialize the values and use appropriate functions to get the details from the user and display it.

13. Create a Calendar class with day, month and year as data members. Include default and parameterized constructors to initialize a Calendar object with a valid date value. Define a function AddDays to add days to the Calendar object. Define a display function to show data in “dd/mm/yyyy” format.
14. Write a C++ program to add n numbers using new and delete operators and array.
15. Write a C++ program to create two dimensional matrix dynamically, where number of rows and number columns should be passed by user.
16. Write a C++ program to Create a class INTEGER which creates an integer array at run time, sorts given integer values and display average of all the array elements.
17. Write a C++ program to create a class named string, which assigns default string with the help of constructor, displays the string and join two string with user defined function and pass two arguments of string object to method.
18. Write a C++ program to create and delete object of class student with the help of new and delete operator. Create two member functions get_data() and display() data.
19. Write a c++ program to create one dimensional array dynamically and find out maximum number from an array.
20. Create a c++ program to create class named string. Two data members fname and lname. Create object dynamically. Use setdata() function to assign user's value into object's variable.