Shree Swaminarayan College Of Computer Science
Sardarnagar, Bhavnagar

202- Object Oriented Programming With C++
Constructors

1. Write a program in C++ to find the area of Circle without input ?
2. Write a program in C++ to find the area of Circle with passing input via constructor ?
3. Write a program in C++ to print the Fibonacci series using constructor ?
4. Write a program in C++ to initialize the biodata ?

Copy Constructors

1. write a program in C++ to read value and clone the object using copy constructor ?
2. write a program in C++ to clone the biodata using copy constructor ?

Destructor

3. Write a program in C++ to demonstrate destructor function. ?

Static Members

4. Write a program in C++ to demonstrate static members ?
5. Write a program in C++ to print factorial value of 1 to 15 using static members ?

Inline Functions

6. Write a program in C++ to read and display given number ?
7. Write a program in C++ to perform all arithmetic operations ?

Friend Functions

8. Write a program in C++ to read and display given number ?
9. Write a program in C++ to compare number value between two objects ?

Practice program

1. Write an inline function that obtains the largest of three Nos. tests the function using inline function.
2. Write a function called hms_to _secs() that takes three integer values – for hours, minutes and seconds- as arguments, and returns the equivalent time in seconds(type long).
3. Write a function called **swap()** that interchanges two int values passed to it by the calling program.
4. Write a function that when you call it displays a message telling how many times it has been called.(it will display the message like “I have been called 5 times.”)Hint: use static variable.
5. Write a function power ( ) raise a number m to a power N. the function takes a double value for m and int value for n and returns the result correctly. Use a default value of 2 for n to make the function to calculate squares when this argument is omitted. Write a main that gets the values of m and n from the user to test the function.

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6. Write a function that perform the same operation as above but takes an int value for m. both the functions should have the same name write a main that calls both the functions. Use the concept of function over loading.
7. Write a area function that calculate the area of circle, square, rectangle as per the argument (use the concept of function overloading).
8. Write a area function that calculate the volume of circle, square, rectangle as per the argument (use the concept of function overloading).