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Basic of Programming 2

Laboratory report 6

Task 1.

- e. Start the program in debugger mode and observe its execution in *StringTest.cpp*.
When will a copy constructor and a destructor be called? Why?

- When will a copy constructor be called?

Ans: A copy constructor will be called only if we create a new class object which we pass other class object to it, so a copy constructor will be called and copy other class object to the class object that we just created. Which in case of the given source code, there is no test case for such situation (there is only a test case for some similar situation. e.g **static void copy, conversion constructor**. But we have implemented those method separately). Therefore, A copy constructor will not be called here.

- When will a destructor be called?

Ans: A destructor will be called when the program go out of scope where those class objects are declared. In the given source code, a destructor of all class objects will be called at the end of main() program.

- f. Show that if a static function is substituted by a non-static one, then the latter refers to a class object, and not to the class itself:

Ans: I have implemented those cases on the String.cpp file.