

CS-224 Object Oriented Programming and Design Methodologies

Assignment 05

October 15, 2018

1 Guidelines

You need to submit this assignment on **26th of October at 630 pm** as the next assignment will be given on the same day. Some important guidelines about the assignment are as following:

- You need to do all the assignments alone
- You will submit your assignment to git-hub
- You need to follow the best programming practices
- Submit assignment on time; late submissions will not be accepted.
- Some assignments will require you to submit multiple files. Always Zip and send them.
- It is better to submit incomplete assignment than none at all.
- It is better to submit the work that you have done yourself than what you have plagiarized.
- It is strongly advised that you start working on the assignment the day you get it. Assignments WILL take time.
- Every assignment you submit should be a single zipped file containing all the other files. Suppose your name is John Doe and your id is 0022 so the name of the submitted file should be JohnDoe0022.zip
- DO NOT send your assignment to your instructor, if you do I will just mark your assignment as ZERO for not following clear instructions.
- You can be called in for Viva for any assignment that you submit

2 Task

For this assignment you are given the file `SmartString.h` that contains the sample code. The tasks you need to accomplish are:

- You will need to implement all the functions of the `SmartString` class exactly like they have been declared in the header file.
- You cannot change the access specifiers of either the attributes or the functions.
- You cannot add extra attributes to the class itself. The functions can have local variables.
- Try to use functions inside one another to maximize code reuse.
- You will need to define `SmartString.cpp` and `main.cpp`
- All the functions of the `SmartString` class must work in the main file
- This is the last programming assignment, so do not forget to treat yourself once it is done!

– The End –