



Faculty of Computers and Artificial Intelligence
Cairo University

Object Oriented Programming Course (CS213)
Under Supervision Eng. Rana Abdelkader

Group: S21

Assignment 2 – Task 4

Done By:

Name	ID	What's done
Ghassan Tarek Elgendy	20220239	Downloaded the analyzer
Rawan Ehab Ammar	20220331	Tracked the alerts
Jana Mohamed Ramadan	20220470	Enhanced code by omitting the alerts

Task 4: Code analysis

1. report of the experience

It greatly enhanced the overall code quality, improved code reliability it was hard to use at first glance but once we tried it in the BigReal task things got easier.

2.A-In task 2 (BigReal):

Code	Message	File	Line
V612	V612 An unconditional 'return' within a loop. BigReal.cpp 109	BigReal.cpp	109
V1071	V1071 Consider inspecting the 'removeLead' function. The return value is not always used. Total calls: 10, discarded results: 1. BigReal.h 25	BigReal.h BigReal.cpp	25

The code is submitted with the new clean code after omitting the unconditional return.

2.B-In task 3 (Machine Language Simulator):

Code	Message	File	Line
V730	V730 Not all members of a class are initialized inside the constructor. Consider inspecting: opCode. Instruction.cpp 4	BigReal.cpp	109
V730	V730 Not all members of a class are initialized inside the constructor. Consider inspecting: steps. Machine.cpp 12	BigReal.h BigReal.cpp	25

The code is submitted with the new clean code after initializing the constructor of the classes.

Attached the new version of the code.