



Faculty of Computers and Artificial Intelligence
Cairo University

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

Group: S21

Assignment 2 – Task 3 + Task 4

Done By:

Name	ID	Classes, Opcodes
Ghassan Tarek Elgendy	20220239	Opcode(3), Class(IR, Instructions, Machine)
Rawan Ehab Ammar	20220331	Opcode(4, 5, 6), Class(Counter, Memory, Machine)
Jana Mohamed Ramadan	20220470	Opcode(B, 1, 2), Class(Registry, Memory)

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.

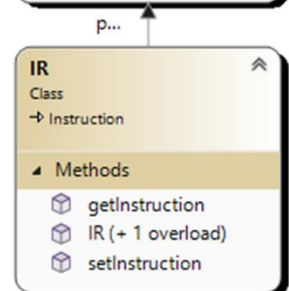
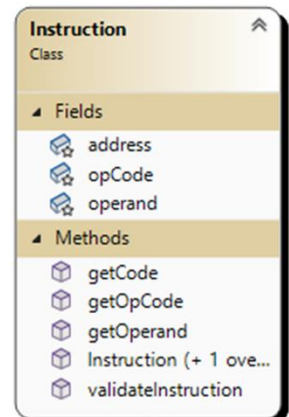
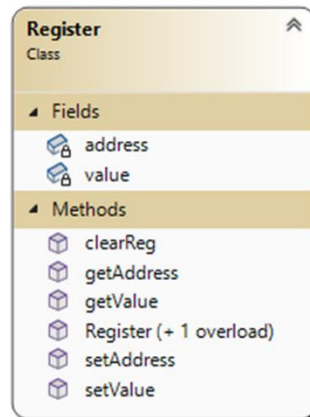
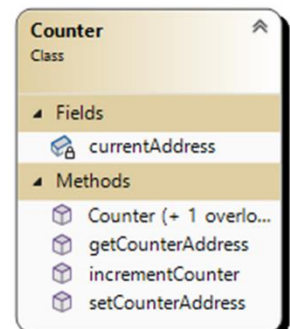
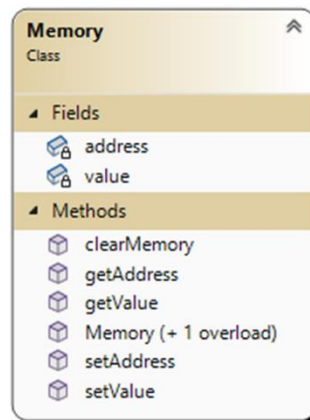
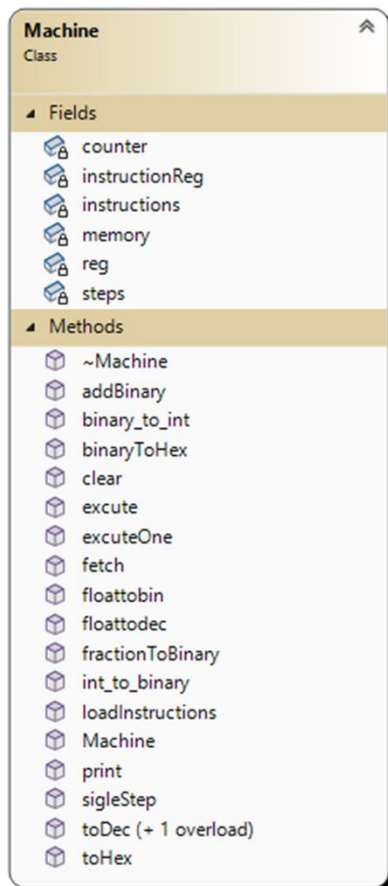
2.B-In task 3 (Machine Language Simulator):

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.

Class Diagram:





p...

Git Commits:


Commits on Nov 15, 2023


Update Machine Methods

 ghassanelgenny committed 42 minutes ago


 e0ed4fe <>


Add Class Diagram

 ghassanelgenny committed 42 minutes ago


 afb35dc <>


Update Source.cpp

 ghassanelgenny committed 42 minutes ago


 63262f6 <>


Edit Problem

 ghassanelgenny committed last week

Verified eaf09c8 <>


Merge branch 'main' of <https://github.com/ghassanelgenny/CS213-A2>


 janaramadan committed last week

 6c653be <>


Commits on Nov 12, 2023


added latest edits

 rowanammar committed 2 days ago


 5e4c3d9 <>


added latest edits

 rowanammar committed 2 days ago

 fd09484 <>

Add Case 6 ...

 rowanammar committed 2 days ago

 f0618af <>