Cairo University

Faculty of Computers and Artificial Intelligence



CS213 – Programming II

First Semester 2022 – 2023

Group A

Assignment #1 Report

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Task 1 - Classes, objects, abstraction and operator overloading

Work Done:

- Hossam Ahmed Fouad 20210124
 - o a Initialization of number from string constructor BigDecimalInt (string decStr)
 - o b Initialization of number from int constructor BigDecimalInt (int decInt)
 - c Operator overloading for addition (+) to handle addition on strings for
 BigDecimalInt Class BigDecimalInt operator+ (BigDecimalInt anotherDec)
- Omar Gaafar 20210263
 - o d Operator overloading for subtraction (-) to handle subtraction on strings for BigDecimalInt Class BigDecimalInt operator- (BigDecimalInt anotherDec)
 - o e Operator overloading for inequality sign (<) bool operator< (BigDecimalInt anotherDec)
- Mohamed Waleed 20210362
 - f Operator overloading for inequality sign (>) bool operator> (BigDecimalInt anotherDec)
 - g Operator overloading for equality sign (==) bool operator== (BigDecimalInt anotherDec)
 - h Operator overloading for assigning operator (=) bool operator= (BigDecimalInt anotherDec)
 - o i Member function that returns size of number int size()
 - o j Member function that returns sign of number int sign()
 - k Operator overloading for output operator (<<) friend ostream& operator <<
 (ostream& out, BigDecimalInt b)

Task 2 – Individual problems from Sheet 1

Problems Done:

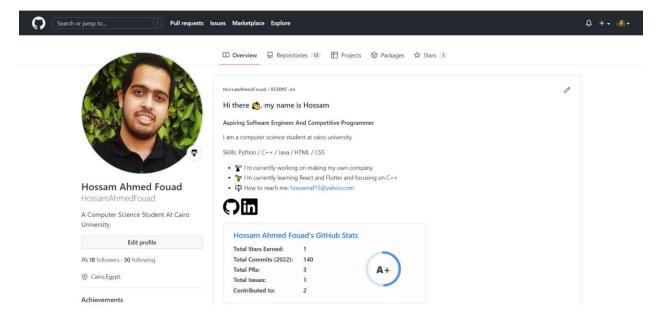
Hossam Ahmed Fouad -20210124:0-3-6

Omar Gaafar -20210263: 1-4-7

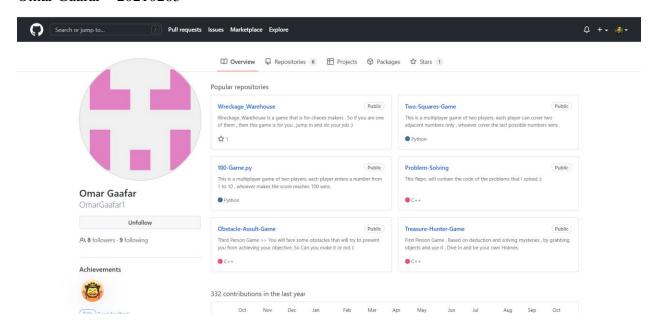
Mohamed Waleed -20210362: 2-5-8

GitHub Accounts

Hossam Ahmed Fouad – 20210124



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