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Assignment 6

1. Draw the detailed anatomy of BrinarySarch.java on page 9 of the textbook. Brief is given in the book. You have to extend it by explaining each function of each variable, loop, selection statements, external libraries of the program.
2. Draw the flowchart of BinarySearch.java on your notebook.
3. Make an explanatory video of the program and upload it on your google drive and copy its link in the assignment file.
4. Compile, run and upload it on GitHub.

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Assignment 5

Write down short programs of the following on your class notebook along with their flowcharts. You can take help from the example codes as given in C++ book. Take snapshots of them and upload in Assignment 5. Finally, compile, run, and push them to your Github profile.

a. Use of declaration, assignment, and expressions. Print their results on the command line.

b. Use of if and if-else conditional statements

c. Use of while loop

d. Use of for loop

e. Use of methods and their return values.

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Assignment 4

Write down the anatomy of Euclid Algorithm implemented in Java with and without recursion on your class notebook. Take a snapshot and upload it in Assignment 4.

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Assignment 3

Solve the following Questions on your class notebook. Take snapshots of the notebook pages and paste it in the Assignment 3 and Turn in.

Q1. What is GCD or GCF?

Q2. Calculate the GCD of the following

1. Find gcd(12, 15)

2. Find gcd(9, 10)

3. Find gcd(9, 12, 21)

Q3. Calculate the GCD of the following by using Prime Factorization

1. Find gcd(25, 35)

2. Find gcd(2, 51)

3. Find gcd(9, 21, 39)

Q4. Calculating the gcd of complex numbers gcd(3+𝑖,1−𝑖).

Q5. Write down the Euclidean Algorithm.

Q6. Proof Euclidean Algorithm.

Q7. Find the GCD of 770 and 492 using Euclidean Algorithm.

Q8. What is the use of GCD in computer science?

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Assignment 2

Past the contribution graph of your Github profile here after pushing your HelloWorld.java from your system.