EXTERNAL LEARNING 1

Date of submission: 16/09/2019

<u>Learning outcomes</u>:

- Apply basic C programming constructs to solve problems.
- Write, debug and execute C programs for simple applications using a text editor.

<u>Important instructions:</u>

- Assignment has to be submitted on time else marks will be deducted.
- This must be submitted along with the evaluation sheet.
- All answers must be handwritten, except for programming questions. You may take the printout of the source code along with the output.
- EACH INDIVIDUAL MUST INDEPENDENTLY SOLVE THE QUESTIONS. IF FOUND COPYING, STRICT PUNISHMENT WILL BE GIVEN.

Questions:

- 1. Explain in detail about the formatted I/O functions in C. Execute a sample demonstration program and submit the code and the output to show the working of formatted I/O in C.
- 2. Pick any one or two applications in real life (e.g. Facebook, Amazon etc). Find out what programming languages and technologies are they using for their application.
- 3. Search through the history of Operating systems and find out the programming language used to build various Operating systems and write a summary about the same.
- 4. Write a pseudocode for sign-in into Facebook (email ID and password must be valid and match with each other)
- 5. Execute the following programs and submit the code along with the output.

Consider that we want to do the following matrix multiplication.

A.X=B

Input the dimensions of X and B and print the dimensions of A. In case any input is wrongly entered, print "Wrong Dimensions". Use ternary operators.

Sample input/output:

A)

Enter dimensions of X

5.3

Enter dimensions of B

63

Dimensions of A are: 65

B)

Enter dimensions of X

5 3

Enter dimensions of B

2.5

Dimensions do not match for matrix multiplication.