

2D Project [Phase-1]

Requirements:

1. Implement 2D package which contains: [30 mark]

Drop down list for the following Requirements:[4]

- a. Change the background of window to be white [1 mark]
- b. Try to change the shape of your window mouse [1 mark]
- c. User must interact with window using mouse only [1 mark]
- d. Try to make combination between your console and window [1 mark]
- e. Give me an option to choose shape color before drawing from menu [2 mark]
- f. Implement item to clear screen from shapes [1 mark]
- g. Implement save function for all data in screen [2 marks]
- h. Implement load function to load data from files [2 marks]
- i. Implement line algorithms [DDA, Midpoint and parametric] [3 marks]
- j. Implement Circle algorithms (Direct, Polari iterative Polar, midpoint and modified Midpoint) [5 marks]
- k. Filling Circle with lines after taking filling quarter from user [3 marks]
- l. Ellipse Algorithms [Direct and polar] Self-study [2 marks]
- m. Clipping point and line [2 marks]

Rules:

- 1- You have till Saturday 5/1/2022 to finalize your code
- 2- No late submission.
- 3- -10 for copies
- 4- Groups: 4 students max from the same group.
- 5- Be ready to be asked about each function.