# Cairo University 3rd year 2021-2022

**Faculty of Computers and Information Computer Graphics Information Technology Department**

**2D Project [Phase-1]**

***Requirements:***

1. ***Implement 2D package which contains:***

Drop down list for the following Requirements:[4]

* 1. Change the background of window to be white
  2. Try to change the shape of your window mouse
  3. User must interact with window using mouse only
  4. Try to make combination between your console and window
  5. Give me an option to choose shape color before drawing from menu
  6. Implement item to clear screen from shapes
  7. Implement save function for all data in screen
  8. Implement load function to load data from files
  9. Implement line algorithms [DDA, Midpoint and parametric]
  10. Implement Circle algorithms (Direct, Polari iterative Polar, midpoint and modified Midpoint)
  11. Filling Circle with lines after taking filling quarter from user
  12. Ellipse Algorithms [Direct and polar]
  13. Clipping point and line