

**BCT 2405 Computer Graphical systems: Assignment one**  
**Due on 23<sup>rd</sup> Feb 2025 , before 5pm EAT Send email to**  
**Jkuatnotes8@gmail.com the subject of the email as follows :**  
**Ass1: Your name: Student Number**

A) Read on various image formats such as Ai, wmf, Cmx, cgm,svg ,odg, eps , dxf , bmp, jpeg ,Gif ,Tiff,PICT and png

- Explain what the abbreviation stand for and some history on the format
- State whether each of the graphic format above is raster or vector
- Briefly explain a typical application or area of usage of each of the format

A) Calculate the points between the stated starting point and ending point and plot the line using the below algorithms ( show the calculations and attach the OPENGGL code as zipped files ). **No Handwritten work**

1. Xiaolin Wu's line algorithm ((1,1) and(3, 5).
2. Gupta-Sproull algorithm (-2, 3) and (1, 4)
3. Midpoint Algorithm (- 3, 4) and (5, - 2).
4. Bresenham's Line-Drawing Algorithm (1,5) and (2,8).
5. Midpoint Line-Drawing Algorithm (0,2) and (-1,4)
6. DDA line drawing Algorithm (5,2) and(10, 3).