c) Differentiate between Raster Graphics and Vector Graphics. Give two file formats for each.

Raster graphics are digital images represented by a matrix of pixels called a bitmap while vector graphics are computer graphics in which visual images are created directly from geometric shapes defined on a cartesian plane.

Raster graphics file formats

- JPEG.
- .PNG.

Vector file formats

- SVG (Scalable Vector Graphics)
- PDF (Portable Document Format)

d) A bitmap image has 157*131 resolution pixels. Each pixel is 16-bit depth. Calculate the size of the bitmap image in kilobytes.

File size= (resolution*bit depth)

= (157*131 * 16)

=329072 bits *0.000125

= 41.134 kilobytes