Importing Library

In [1]:
```
import numpy as np
import cv2
```

Drawing Line

In [10]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(600,700))

#Here line accept 5 parameter (img,starting,ending,color,thickness)

img = cv2.line(img, (0,0), (200,200), (5, 92, 53), 4)
#color format BGR, choose color from google (color picker)

cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Drwaing Arrow

In [21]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(600,700))

#arrowed line accept also accpet 5 parameter  (img,starting,ending,color,thickness)

img = cv2.arrowedLine(img, (0,125), (255,255), (255, 0, 125), 10)
cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Drawing Rectangle

In [22]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(600,700))

#Rectangle - accept parameter(img,starting_coordinate,ending_coordinate,colorcode ,th

img = cv2.rectangle(img, (384, 10), (510, 128), (128, 0, 255), 8) # positive->outline

img = cv2.rectangle(img, (84, 8), (300, 100), (228, 10, 25), -1) # negative will be f

cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Drawing Circle

In [24]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(600,700))
#circle(img,starting_coordinate,radius,color,thickness)

img = cv2.circle(img, (447, 125), 63, (214, 255, 0), -5) # filled circle
img = cv2.circle(img, (147, 225), 20, (110, 300, 0), 5) # outline circle


cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Writing Text

In [25]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(600,700))

font = cv2.FONT_ITALIC
#puttext(img,text,start_co,font,fontsize,color,thickness,linetype)
img = cv2.putText(img, 'THOR', (20, 500), font, 2,
                  (10, 125, 255), 5,cv2.LINE_AA)

cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Drawing ellipse

In [27]:
```
img = cv2.imread("image/thor.jpg")
img = cv2.resize(img,(500,700))

#ellipse(img,start_cor,(length,height),rotation point (0,0),angle(270),color(155),thi
img = cv2.ellipse(img,(400,600),(100,50),0,0,270,155,5)

cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Creating Blank Image for Black Screen

In [32]:
```
img = np.zeros([512,512,3], np.uint8)*255 #create window of an black screen

#Here line accept 5 parameter (img,starting,ending,color,thickness)
img = cv2.line(img, (0,0), (200,200), (154, 92, 424), 8) #color format BGR

#arrowed line accept also accpet 5 parameter  (img,starting,ending,color,thickness)
img = cv2.arrowedLine(img, (0,125), (255,255), (255, 0, 125), 10)

#Rectangle - accept parameter(img,start_co,end_co,colot ,thickness)
img = cv2.rectangle(img, (384, 10), (510, 128), (128, 0, 255), 8)

#circle - accept(img,star_co,radius,color,thickness)
img = cv2.circle(img, (447, 125), 63, (214, 255, 0), -5)

font = cv2.FONT_ITALIC
#puttext -accept(img,text,start_co,font,fontsize,color,thickness,linetype)
img = cv2.putText(img, 'THOR', (20, 500), font, 4, (0, 125, 255), 10,cv2.LINE_AA)

#ellipse-accept(img,start_cor,(length,height),color,thickness)
img = cv2.ellipse(img,(400,600),(100,50),0,0,180,155,5)
cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

Creating Blank image for White Screen

In [34]:
```
img = np.ones([512,512,3], np.uint8)*255 #create window of an white screen(width,heigh

#Here line accept 5 parameter (img,starting,ending,color,thickness)
img = cv2.line(img, (0,0), (200,200), (154, 92, 424), 8) #color format BGR

#arrowed line accept also accpet 5 parameter  (img,starting,ending,color,thickness)
img = cv2.arrowedLine(img, (0,125), (255,255), (255, 0, 125), 10)

#Rectangle - accept parameter(img,start_co,end_co,colot ,thickness)
img = cv2.rectangle(img, (384, 10), (510, 128), (128, 0, 255), 8)

#circle - accept(img,star_co,radius,color,thickness)
img = cv2.circle(img, (447, 125), 63, (214, 255, 0), -5)

font = cv2.FONT_ITALIC
#puttext -accept(img,text,start_co,font,fontsize,color,thickness,linetype)
img = cv2.putText(img, 'THOR', (20, 500), font, 4, (0, 125, 255), 10,cv2.LINE_AA)

#ellipse-accept(img,start_cor,(length,height),color,thickness)
img = cv2.ellipse(img,(400,600),(100,50),0,0,180,155,5)
cv2.imshow("Image",img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

In [ ]:
```
```