ACTIVITY – 9B: SHAPES ON IMAGE

In [15]:
```python
import cv2
```

In [16]:
```python
import numpy as np
```

In [17]:
```python
# RGB and unsigned int datatype
img = np.zeros((400, 400, 3), dtype = "uint8")
cv2.imshow('dark', img)

cv2.waitKey(0)
cv2.destroyAllWindows()
```


In [11]:
```python
# Python3 program to draw line

import numpy as np
import cv2

img = np.zeros((400, 400, 3), dtype = "uint8")

# Creating line
cv2.line(img, (20, 160), (100, 160), (0, 0, 255), 10)

cv2.imshow('dark', img)

cv2.waitKey(0)
cv2.destroyAllWindows()
```


In [12]:
```python
# Python3 program to draw rectangle
import numpy as np
import cv2

# Creating a black image with 3
# channels RGB and unsigned int datatype
img = np.zeros((400, 400, 3), dtype = "uint8")

# Creating rectangle
cv2.rectangle(img, (30, 30), (300, 200), (0, 255, 0), 5)

cv2.imshow('dark', img)

cv2.waitKey(0)
cv2.destroyAllWindows()
```


In [13]:
```python
#Python3 program to draw circle
import numpy as np
import cv2

img = np.zeros((400, 400, 3), dtype = "uint8")

# Creating circle
cv2.circle(img, (200, 200), 80, (255, 0, 0), 3)

cv2.imshow('dark', img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```


In [13]:
```python
#Python3 program to draw circle
import numpy as np
import cv2

img = np.zeros((400, 400, 3), dtype = "uint8")

# Creating circle
cv2.circle(img, (200, 200), 80, (255, 0, 0), 3)

cv2.imshow('dark', img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```


In [14]:
```python
# Python3 program to write
import numpy as np
import cv2

img = np.zeros((400, 400, 3), dtype = "uint8")

# writing text
font = cv2.FONT_HERSHEY_SIMPLEX
cv2.putText(img, 'Hello', (50, 50),font, 0.8, (0, 255, 0), 2, cv2.LINE_AA)

cv2.imshow('dark', img)

cv2.waitKey(0)
cv2.destroyAllWindows()
```