#!/usr/bin/env python3

import pygame, sys
from pygame.locals import *
dark_blue = (25, 50, 150)
black = (0, 0, 0)
height = 300
width = 400

slide 1 gaius

```
pygame.init ()
screen = pygame.display.set_mode([width, height])
pygame.draw.rect (screen, dark_blue, (50, 50, 60, 60), 0)
pygame.display.flip()
while True:
    for event in pygame.event.get ():
        if event.type == pygame.QUIT:
            sys.exit(0)
        if event.type == KEYDOWN:
            if event.key == K_ESCAPE:
            sys.exit (0)
```

the line

pygame.draw.rect (screen, dark_blue, (50, 50, 60, 60), 0)

- means:
 - call the rect method and draw on screen a rectangle of colour dark_blue
 - which has a top left corner of 50, 50
 - and a bottom right corner of 60, 60
 - this rectangle will be completely filled (boarder size of 0)

notice that in both the circle and rectangle examples nothing is displayed until you flip the buffer

pygame.display.flip()

- using a common technique of double buffering
 - your application draws everything off screen and then it is flipped onto the screen, giving the illusion everything is drawn at once

#!/usr/bin/env python3
import pygame, sys
from pygame.locals import *
dark_blue = (25, 50, 150)

black = (0, 0, 0)
height = 300
width = 400

slide 5 gaius

```
pygame.init ()
screen = pygame.display.set_mode([width, height])
pygame.draw.polygon (screen, dark_blue, [[50, 50], [100, 100], [50,
pygame.display.flip()
while True:
    for event in pygame.event.get ():
        if event.type == pygame.QUIT:
            sys.exit(0)
        if event.type == KEYDOWN:
            if event.key == K_ESCAPE:
            sys.exit (0)
```

the line

pygame.draw.polygon	(screen,	dark_blue,	[[50, 50],	
			[100, 100],	
			[50, 100]],	0)

- means:
 - call the polygon method and draw on screen a polygon of colour dark_blue
 - which has a top left corner of 50, 50
 - **a** corner at 100, 100
 - and a final corner at 50, 100
 - this polygon will be completely filled (boarder size of 0)

the list of corners is often called a list of vertices as it also describes the lines (verticies of the polygon)