VBugs Worksheet 1

lame:	
ear Level:	SOLUTIONS!!!
art 1	
uestion 1	
What is happ	ening on your SwinGame screen? Describe the output below:
art 2	
Question 1:	
a.	What purpose do comments serve in code?
h	What symbol do you use to make something a comment?
D.	what symbol do you use to make something a comment:
	Why do you think we wight you NC discusses to recover and a
С.	Why do you think we might use NS diagrams to represent code?



d. What would happen to the loop the "Do Until" condition wa	s never met?
Exercise1: Reading the code	
a) Which line contains the code that tells the computer to draw text on the screen?	
b) Which line does contain the code that tell a computer to draw a rectangle on the screen?	
c) Where (line number) does the game loop start and end?	

Exercise 2: Changing the text

a) Change the text "Hello World!" to "Hello *Your Name*!" Write the code below that you changed to make this happen:

Answer:	
'Draws text "Hello World"	
'Refreshes the Screen and Processes Input Events	



Exercise 3: Changing the color

a) Change the color of the text to Color.GreenYellow. Write the code below that you changed to make this happen:

```
Answer:

...
'Draws text "Hello World"

"Refreshes the Screen and Processes Input Events
...
```

b) Change the color of the rectangle to Color.Blue.
Write the code below that you changed to make this happen:

```
Answer:
...
'Draws red rectangle

'Draws text "Hello World"
```

c) Change the background color to Color.LightBlue. Write the code below that you changed to make this happen:

```
Answer:

...

'Clears the Screen to Black

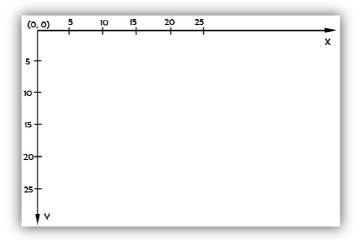
'Draws red rectangle
...
```



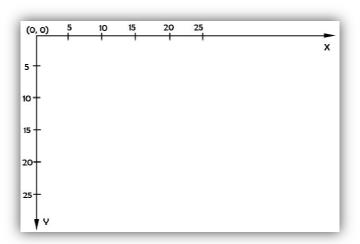
Part 3

Exercise 1: Locations on the screen

a) In the area below draw a small rectangle with coordinates X=15 and Y=5 by hand.



b) In the area below draw the text "Hello Your Name" at X = 5, Y = 20.

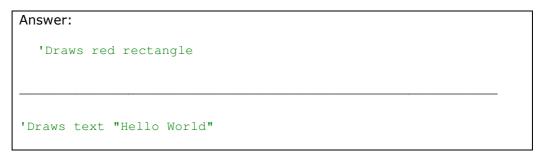


Exercise 2: Changing drawing locations

a) Change the location of the text; put it in the middle of the screen. Write the code below that you changed to make this happen:

Answer:
'Draws text "Hello World"
Refreshes the Screen and Processes Input Events

b) Change the location of the rectangle; put it under the text. Write the code below that you changed to make this happen:



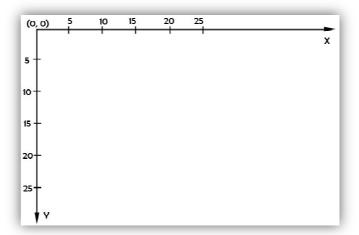
Exercise 3: Size of an element

a) In the area below draw a rectangle with width = 5, height = 10 at the position X = 0, Y = 5.





b) In the area below draw a rectangle with width = 10, height = 5 at the position X = 5, Y = 10.



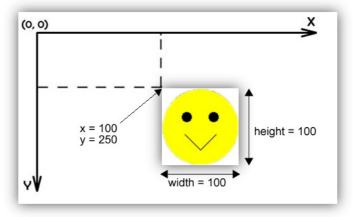
Exercise 4: Draw an element with the new size.

a) Change the size of the rectangle to width = 630 and height = 20. Write the code below that you changed to make this happen:

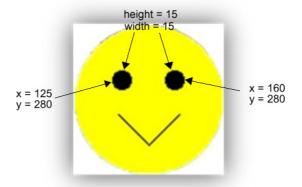
Answer:	
'Draws red rectangle	
'Draws text "Hello World"	

Exercise 5: Draw a smiley face

1) Draw a yellow circle on the screen - "face". Use:
 Graphics.FillEllipseOnScreen(Color, Xpos, Ypos, Width, Heigh) and the
 following dimensions:



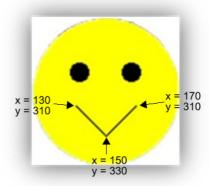
2) Draw the eyes – two black circles inside the yellow circle. Use the same sub call to draw, i.e.:



3) Draw the "smile" on the screen.

Tell the computer to draw two lines which are connected at the bottom, inside the yellow circle. To do so, use:

Graphics.DrawLineOnScreen(Color, XPosStart, YPosStart, XPosEnd, YPosEnd)
i.e.:





Put the code you entered to draw the smiley face this below:

'Draw	yellow circle on the screen - "face".
'Draw	eyes - two black circles inside the yellow circle
'Draw	"smile" on the screen.

