**Memory V1 Reflection Activity**

**Q1 The tiles in the Memory Game share some properties. Refer to your code and list all the shared properties (class attributes) of the Tile class.**

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| border\_width  fg\_color  surface |

**Q2 Write a method named input\_images that reads images from five files pic1.gif,pic2.gif,pic3.gif,pic4.gif,pic5.gif and appends each image to an object of type list. Use a for loop and the built-in range function to write the method.**

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| def input\_images(self):  for index in range(1, 6):  image = pygame.image.load('pic'+str(index)+'.gif')  self.image\_list.append(image) |

**Q3.Consider a grid of size x size tiles, where each tile has the same width and height, starting at the top left corner of the window. Write a method named get\_top\_left\_coord that uses a for loop and built-in range function to access and print the top left coordinates of each tile in the grid. The number of tiles (n) in each row or column of the grid, the width of a tile and the height of a tile are passed as arguments to this method.**

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| def get\_top\_left\_coord(number\_tiles, width, height):  coord\_list = [width, height]  for row in range(0, number\_tiles):  for col in range(0, number\_tiles):  top\_left = [str(col\*coord\_list[0]), str(row\*coord\_list[1])]  print(' '.join(top\_left))  get\_top\_left\_coord(3, 100, 100) |

**Q4. A classroom has three rows of three chairs. The teacher has created the following seating chart.**

**seating\_chart = [['Amy','Sarah','Brian'],['Donald','Jacob','Zoey'],['Amanda','Bob','Dora']]**

The first list in the seating\_chart holds the names of the student seated in the first row, the second list holds the names of the students seated in the second row and so on.

a) Write a Python program that accesses this seating\_chart using a for loop and prints the names of each student in each row in order with each student name on a separate line.

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| seating\_chart = [['Amy','Sarah','Brian'],['Donald','Jacob','Zoey'],['Amanda','Bob','Dora']]  for row in range(0, len(seating\_chart)):  for column in range(0, len(seating\_chart)):  print(seating\_chart[row][column]) |

b) Rewrite the Python program so it accesses the same seating chart but print the names of all of the students in the same row on the same line with a single space between each name and with each row printed on a different line.

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| seating\_chart = [['Amy','Sarah','Brian'],['Donald','Jacob','Zoey'],['Amanda','Bob','Dora']]  for row in range(0, len(seating\_chart)):  print(' '.join(seating\_chart[row])) |