ISAT 252 - AnalyticAL Methods

**Worksheet 8: Using Lists (10 points)**

Name: \_\_\_Kadar Anwar\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section: \_\_\_3\_\_\_\_

1. What does the following code display? (1 point)

numbers = [1, 2, 3, 4, 5, 6, 7]

print(numbers[5:])

Displays 6, 7, 8

1. What does the following code display? (1 point)

numbers = [1, 2, 3, 4, 5, 6, 7, 8]

print(numbers[-4:])

Displays 5,6,7,8

1. What does the following code display? (1 point)

values = [2] \* 5

print(values)

2,2,2,2,2

1. Assume the names variable references a list of strings. Write code that determines whether 'Ruby' is in the names list. If it is, display the message 'Hello Ruby'. Otherwise, display the message 'No Ruby'. (2 points)
2. **def main**():  
    names = ['Peter', 'Paul', 'Mary', 'Joseph', 'Ruby', 'Pam']  
     
    search = 'Ruby'  
     
    **if** search **in** names:  
    print("Hello Ruby")  
    **else**:  
    print("No RUby")  
   main()
3. Write a statement that creates a two-dimensional list with 5 rows and 3 columns. Then write nested loops that get an integer value from the user for each element in the list. (5 points)

ROWS = 5  
COLS = 3  
  
**def main**():  
 values = [[0, 0, 0],  
 [0, 0, 0],  
 [0, 0, 0],  
 [0, 0, 0],  
 [0, 0, 0]]  
  
 # fill the list with values from the user  
 **for** r **in** range(ROWS):  
 **for** c **in** range(COLS):  
 values[r][c]=int(input("Enter a value to fill the list: "))  
  
 # display the list  
 print(values)  
  
main()