Robert Gorman - Week 1 Project

Investment Management & Machine Learning

01/16/2024

'''

List

a. create a list of ten numbers.

b. select the third number in the list.

c. select the first three numbers in the list.

'''

#a

num = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

#b

third\_num = num[2]

#c

first\_three\_num = num[:3]

'''

2. Function

a. define a function that prints one of your favorite quotes.

b. define a function that calculates 5x2+2x+7 and calculate the value of this function when x=2.

'''

#a

def fav\_quote():

print("\"Winners never quit, and quitters never win\" - Vince Lombardi")

#b

def function\_formula(x):

return 5 \* x\*\*2 + 2 \* x + 7

answer = function\_formula(2)

print(f"The value of this function when x=2 is: {answer}")

'''

3. Loop

a. create a loop that prints integers from 5 to 10, including 10.

b. create a loop that generates a list of integers from 5 to 10, including 10.

c. create a loop that multiplies all the integers from 5 to 10, including 10.

'''

#a

for i in range(5,11):

print(i)

#b

number = list(range(5, 11))

print(num)

#c

product = 1

for i in range(5, 11):

product \*= i

print(f"Product of integers from 5 to 10, including 10: {product}")