# ESCAP Webscraping for CPI 2024

## Session 6 (Python coding 1) homework

Q1. What type is each of the following?

1. 2.45
2. “lemons”
3. 67
4. ‘July 2024’
5. 6500
6. 56.75
7. False

Q2. Which of the following (note – there could be more than one) will result in the string: “I am turning 54 next year”

1. “I am turning ” 54 “ next year
2. “I am turning ” + 54 + “ next year”
3. “I am turning ” + str(54) + “ next year”
4. Age = str(54)  
   “I am turning ” + age + “ next year”
5. Age = str(54)  
   “I am turning “ + Age + “ next year”

Q3. How are comments into Python code in such a way that Python knows not to interpret them as code?

Q4. Referring to the following code:

|  |
| --- |
| month1 = “July” month2 = “August” lemons1= 5.60 lemons2 = 6.35 lemons1\_2 = lemons2/lemons1 |

a. How would you change this code if the value of lemons in July was revised to 5.95?  
  
b. What code could be added at the end to print out a statement about the change in the price of lemons from July to August, starting with “The change in the price of lemons”

Q5. How would you create a Python list consisting of the following product names followed by their prices?

a. as a mixed-type list (i.e. consisting of both strings and numbers)  
b. as a list of 2-element lists, where each 2-element list consists of a string and a number

|  |  |
| --- | --- |
| **Product name** | **Price** |
| bread | 4.50 |
| milk | 3.45 |
| butter | 7.80 |
| rice | 5.75 |

Q6. Referring to the following list:  
fruit\_prices = [“apples”, 5.65, “lemons”, 6.85, “bananas”, 4.50]

1. fruit\_prices[3] = ?
2. fruit\_prices[1:3] = ?
3. fruit\_prices[3:] = ?
4. fruit\_prices[:4] = ?
5. what code will extract out [‘lemons’, 6.85]?
6. what code will extract out ‘apples’?
7. fruit\_prices[-2] = ?

Q7. Referring to the list above, how would you

1. add [“oranges”, 6.85] to the end of the list?
2. change the price of lemons to 7.15?

Q8. Referring to the following list of prices, how would you create a new variable called minimum\_price which contains the lowest price from the list, using the min() function?  
price\_list = [7.50, 6.75, 8.67. 10.45]

Q9. Is there a Python function that will take a string as an input and output the same string all in uppercase / capitals? Do an internet search to find out.