

School: CLOUDBOOSTA	Course: Cloud Computing & DevOps
Name: AKOSA SAMUEL ONYEJEKWE	Module: Python_intro
	Class 4: Assignment 3 of 4_ Python Lab 2
Student No: CBALC0168	Issue Date: March 17, 2026

Required to:

1. Create lists
2. List slicing
3. Use Python docs
4. Create a dictionary

Please click on the link to access **lab2.py** file:

https://drive.google.com/file/d/187oZZcKjjMikpgdbXdk5Q48J7YrtQRK6/view?usp=drive_link

Result:

Task1:

```

1  # Create Lists
2
3  car brands
4  ds = ["Toyota", "Honda", "BMW", "Mercedes", "Ford", "Tesla"]
5
6  random numbers
7  umbers = [12, 45, 7, 89, 23, 56, 91, 34, 67, 18, 3, 78, 25, 68, 99]
8
9  music artists
10 tists = ["Drake", "Burna Boy", "Wizkid", "Tems", "Davido", "Rema", "Asake"]
11
12 Cloudboosta members (first names)
13 sta_members = ["Samuel", "John", "Mary", "David", "Grace", "Daniel", "Esther", "Paul", "Ruth", "Michael"]
14
15 to verify
16 r_brands)
17 ndom_numbers)
18 sic_artists)
19 oudboosta_members)
20

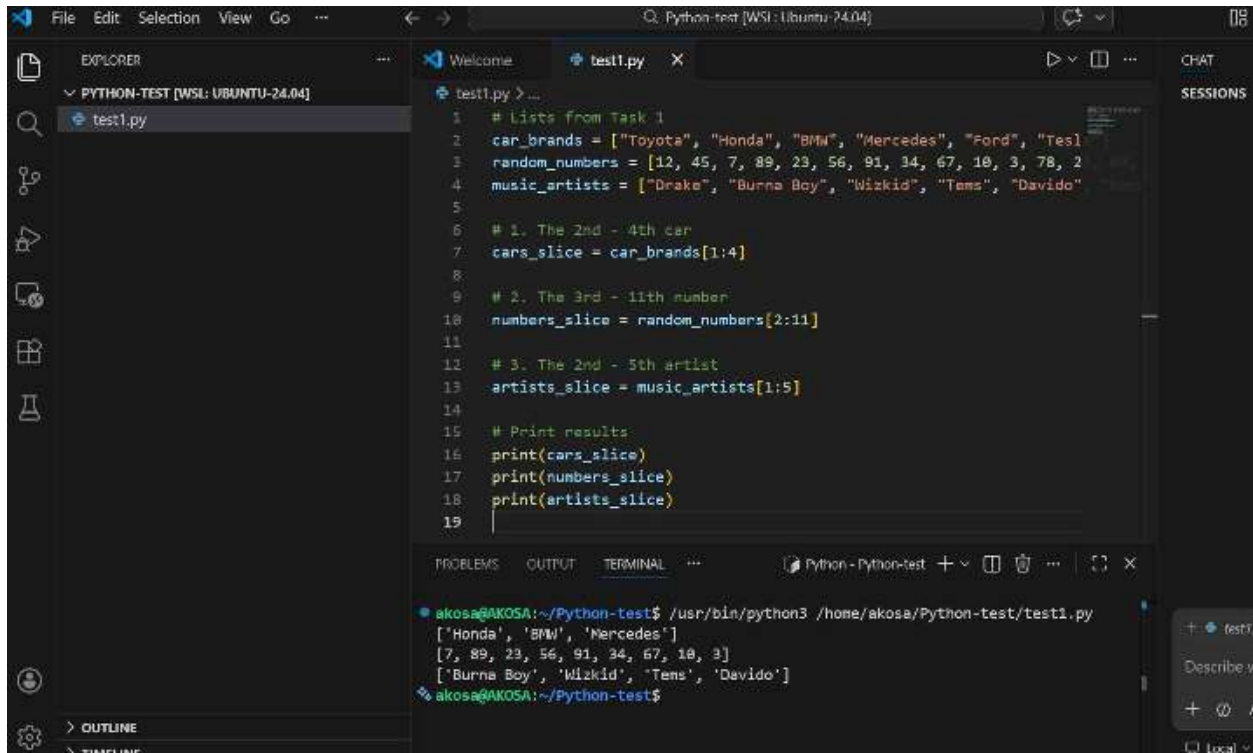
```

```

akosa@AKOSA:~/Python-lab$ /usr/bin/python3 /home/akosa/Python-lab/lab2.py
['Toyota', 'Honda', 'BMW', 'Mercedes', 'Ford', 'Tesla']
[12, 45, 7, 89, 23, 56, 91, 34, 67, 18, 3, 78, 25, 68, 99]
['Drake', 'Burna Boy', 'Wizkid', 'Tems', 'Davido', 'Rema', 'Asake']
['Samuel', 'John', 'Mary', 'David', 'Grace', 'Daniel', 'Esther', 'Paul', 'Ruth', 'Michael']
akosa@AKOSA:~/Python-lab$

```

Task2:

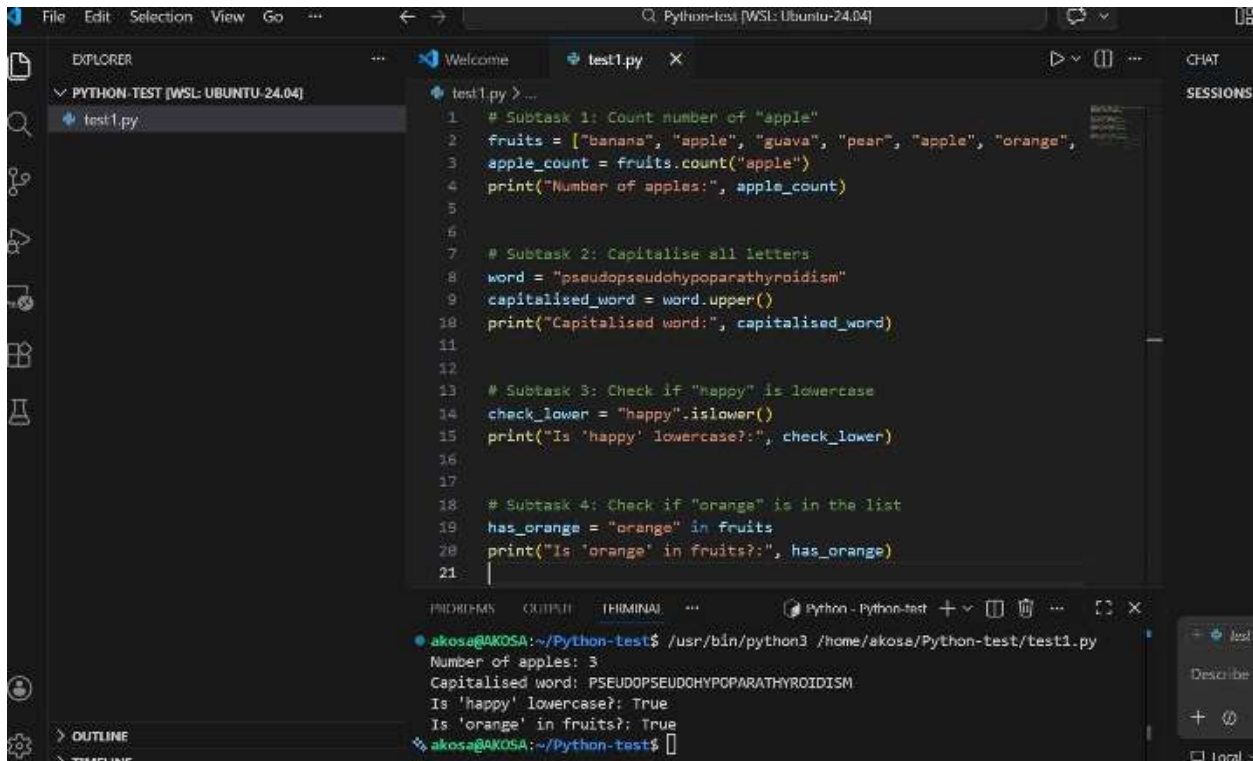


The screenshot shows the VS Code editor with a file named `test1.py` open. The code defines three lists: `car_brands`, `random_numbers`, and `music_artists`. It then uses slicing to extract specific elements from each list and prints them. The terminal output shows the execution of the script, displaying the sliced lists.

```
1 # Lists from Task 1
2 car_brands = ["Toyota", "Honda", "BMW", "Mercedes", "Ford", "Tesla"]
3 random_numbers = [12, 45, 7, 89, 23, 56, 91, 34, 67, 10, 3, 78, 2]
4 music_artists = ["Drake", "Burna Boy", "Wizkid", "Tems", "Davido"]
5
6 # 1. The 2nd - 4th car
7 cars_slice = car_brands[1:4]
8
9 # 2. The 3rd - 11th number
10 numbers_slice = random_numbers[2:11]
11
12 # 3. The 2nd - 5th artist
13 artists_slice = music_artists[1:5]
14
15 # Print results
16 print(cars_slice)
17 print(numbers_slice)
18 print(artists_slice)
19
```

```
akosa@AKOSA:~/Python-test$ /usr/bin/python3 /home/akosa/Python-test/test1.py
['Honda', 'BMW', 'Mercedes']
[7, 89, 23, 56, 91, 34, 67, 10, 3]
['Burna Boy', 'Wizkid', 'Tems', 'Davido']
akosa@AKOSA:~/Python-test$
```

Task3

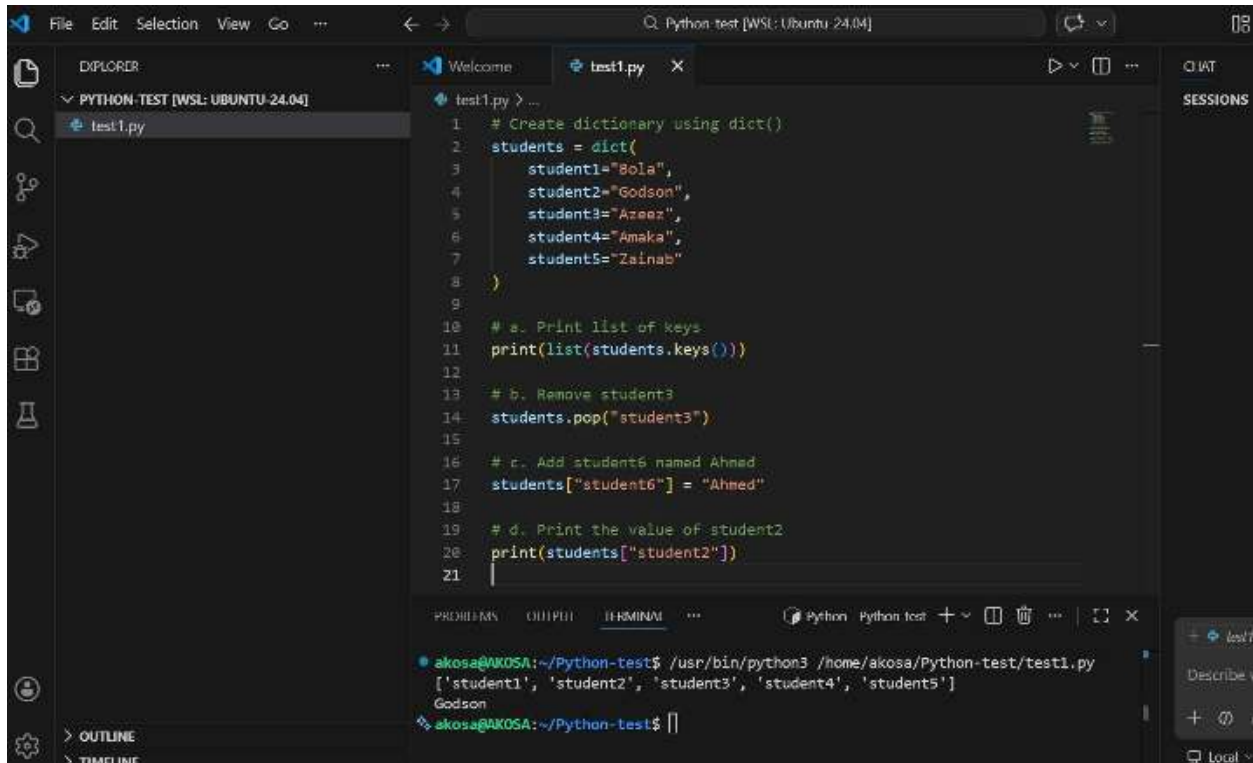


The screenshot shows the VS Code editor with a file named `test1.py` open. The code contains four subtasks: counting the number of 'apple' in a list of fruits, capitalizing all letters in a word, checking if 'happy' is lowercase, and checking if 'orange' is in a list of fruits. The terminal output shows the execution of the script, displaying the results for each subtask.

```
1 # Subtask 1: Count number of "apple"
2 fruits = ["banana", "apple", "guava", "pear", "apple", "orange"]
3 apple_count = fruits.count("apple")
4 print("Number of apples:", apple_count)
5
6
7 # Subtask 2: Capitalise all letters
8 word = "pseudopseudohypoparathyroidism"
9 capitalised_word = word.upper()
10 print("Capitalised word:", capitalised_word)
11
12
13 # Subtask 3: Check if "happy" is lowercase
14 check_lower = "happy".islower()
15 print("Is 'happy' lowercase?:", check_lower)
16
17
18 # Subtask 4: Check if "orange" is in the list
19 has_orange = "orange" in fruits
20 print("Is 'orange' in fruits?:", has_orange)
21
```

```
akosa@AKOSA:~/Python-test$ /usr/bin/python3 /home/akosa/Python-test/test1.py
Number of apples: 3
Capitalised word: PSEUDOPSEUDOHYPOPARATHYROIDISM
Is 'happy' lowercase?: True
Is 'orange' in fruits?: True
akosa@AKOSA:~/Python-test$
```

Task4

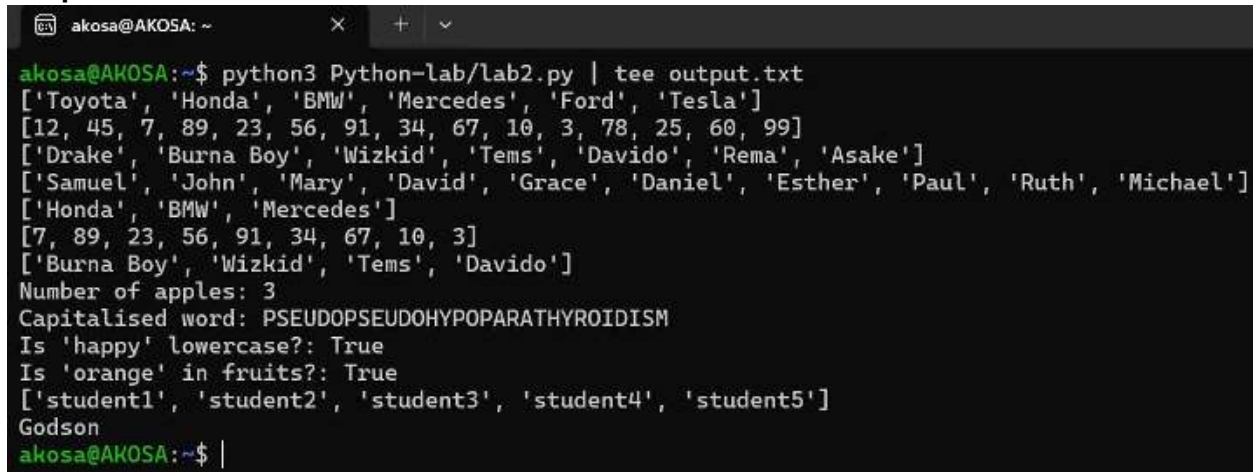


The screenshot shows the Visual Studio Code editor interface. The Explorer pane on the left shows a project named 'PYTHON-TEST [WSL: UBUNTU-24.04]' with a file named 'test1.py'. The main editor window displays the code for 'test1.py'. The code creates a dictionary, prints its keys, removes a key, adds a new key-value pair, and prints a specific value. The Output pane at the bottom shows the execution results of the script.

```
1 # Create dictionary using dict()
2 students = dict(
3     student1="Bola",
4     student2="Godson",
5     student3="Azeez",
6     student4="Amaka",
7     student5="Zainab"
8 )
9
10 # a. Print list of keys
11 print(list(students.keys()))
12
13 # b. Remove students
14 students.pop("student3")
15
16 # c. Add student6 named Ahmed
17 students["student6"] = "Ahmed"
18
19 # d. Print the value of student2
20 print(students["student2"])
21
```

akosa@AKOSA:~/Python-test\$ /usr/bin/python3 /home/akosa/Python-test/test1.py
['student1', 'student2', 'student3', 'student4', 'student5']
Godson
akosa@AKOSA:~/Python-test\$

Output on Ubuntu:



The screenshot shows a terminal window with the command 'python3 Python-lab/lab2.py | tee output.txt' and its output. The output consists of several lines of data, including lists of names, numbers, and a specific word.

```
akosa@AKOSA:~$ python3 Python-lab/lab2.py | tee output.txt
['Toyota', 'Honda', 'BMW', 'Mercedes', 'Ford', 'Tesla']
[12, 45, 7, 89, 23, 56, 91, 34, 67, 10, 3, 78, 25, 60, 99]
['Drake', 'Burna Boy', 'Wizkid', 'Tems', 'Davido', 'Rema', 'Asake']
['Samuel', 'John', 'Mary', 'David', 'Grace', 'Daniel', 'Esther', 'Paul', 'Ruth', 'Michael']
['Honda', 'BMW', 'Mercedes']
[7, 89, 23, 56, 91, 34, 67, 10, 3]
['Burna Boy', 'Wizkid', 'Tems', 'Davido']
Number of apples: 3
Capitalised word: PSEUDOPSEUDOHYPOPARATHYROIDISM
Is 'happy' lowercase?: True
Is 'orange' in fruits?: True
['student1', 'student2', 'student3', 'student4', 'student5']
Godson
akosa@AKOSA:~$
```

Task 1: Create Lists

1. 6 car brands

```
car_brands = ["Toyota", "Honda", "BMW", "Mercedes", "Ford", "Tesla"]
```

2. 15 random numbers

```
random_numbers = [12, 45, 7, 89, 23, 56, 91, 34, 67, 10, 3, 78, 25, 60, 99]
```

3. 7 music artists

```
music_artists = ["Drake", "Burna Boy", "Wizkid", "Tems", "Davido", "Rema", "Asake"]
```

4. 10 Cloudboosta members (first names)

```
cloudboosta_members = ["Samuel", "John", "Mary", "David", "Grace", "Daniel", "Esther",  
"Paul", "Ruth", "Michael"]
```

Print to verify

```
print(car_brands)
```

```
print(random_numbers)
```

```
print(music_artists)
```

```
print(cloudboosta_members)
```

Task 2: List Slicing

Lists from Task 1

```
car_brands = ["Toyota", "Honda", "BMW", "Mercedes", "Ford", "Tesla"]
```

```
random_numbers = [12, 45, 7, 89, 23, 56, 91, 34, 67, 10, 3, 78, 25, 60, 99]
```

```
music_artists = ["Drake", "Burna Boy", "Wizkid", "Tems", "Davido", "Rema", "Asake"]
```

1. The 2nd - 4th car

```
cars_slice = car_brands[1:4]
```

2. The 3rd - 11th number

```
numbers_slice = random_numbers[2:11]
```

3. The 2nd - 5th artist

```
artists_slice = music_artists[1:5]
```

Print results

```
print(cars_slice)
```

```
print(numbers_slice)
```

```
print(artists_slice)
```

Task 3: Use Python docs

```
# Subtask 1: Count number of "apple"
fruits = ["banana", "apple", "guava", "pear", "apple", "orange", "mango", "apple", "banana"]
apple_count = fruits.count("apple")
print("Number of apples:", apple_count)
```

```
# Subtask 2: Capitalise all letters
word = "pseudopseudohypoparathyroidism"
capitalised_word = word.upper()
print("Capitalised word:", capitalised_word)
```

```
# Subtask 3: Check if "happy" is lowercase
check_lower = "happy".islower()
print("Is 'happy' lowercase?:", check_lower)
```

```
# Subtask 4: Check if "orange" is in the list
has_orange = "orange" in fruits
print("Is 'orange' in fruits?:", has_orange)
```

Task 4: Dictionaries

```
# Create dictionary using dict()
students = dict(
    student1="Bola",
    student2="Godson",
    student3="Azeez",
    student4="Amaka",
    student5="Zainab"
)
```

```
# a. Print list of keys
print(list(students.keys()))
```

```
# b. Remove student3
students.pop("student3")
```

```
# c. Add student6 named Ahmed
```

```
students["student6"] = "Ahmed"
```

```
# d. Print the value of student2  
print(students["student2"])
```