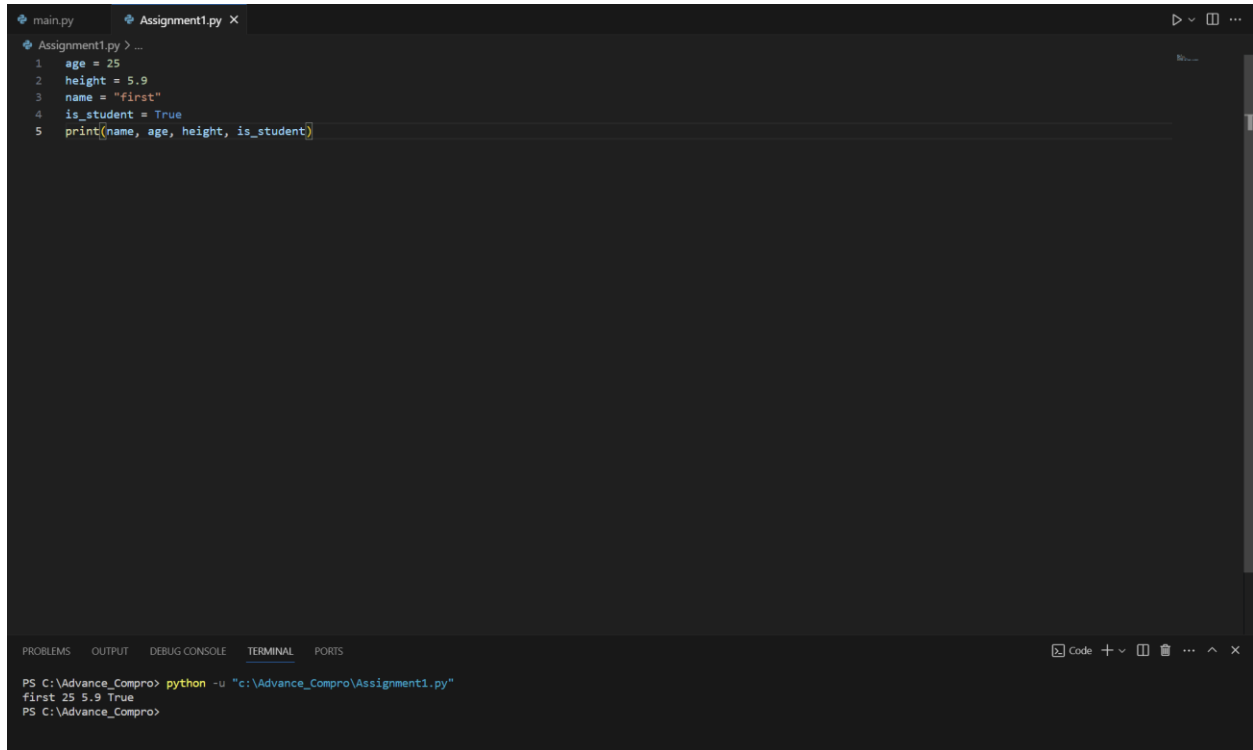


66110039 Pattaraphum Thamtanasakul

Lab 1

1.

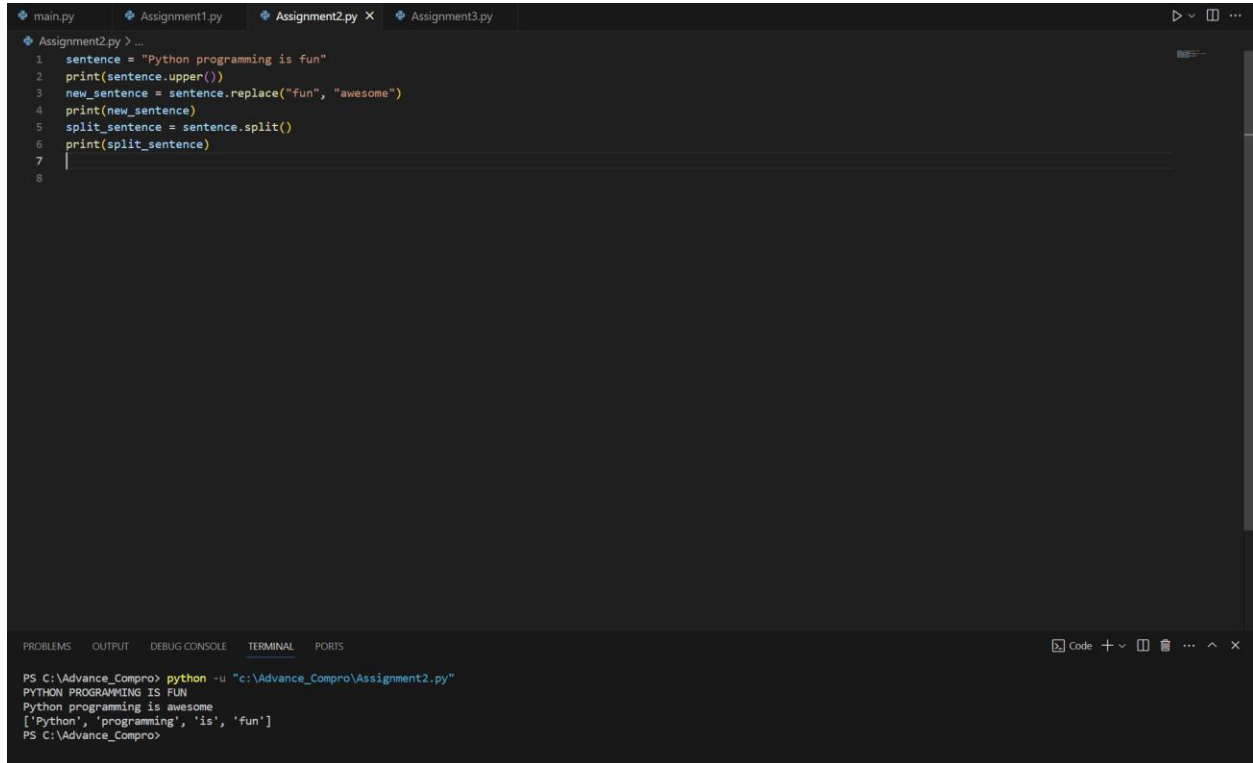


The image shows a Visual Studio Code editor window with a dark theme. The editor has two tabs: 'main.py' and 'Assignment1.py'. The 'Assignment1.py' tab is active, showing a Python script with five lines of code. The code defines variables for age, height, name, and is_student, and then prints them. Below the editor, the 'TERMINAL' panel is open, showing the command 'python -u "c:\Advance_Copro\Assignment1.py"' and its output: 'first 25 5.9 True'.

```
main.py Assignment1.py X
Assignment1.py > ...
1 age = 25
2 height = 5.9
3 name = "first"
4 is_student = True
5 print(name, age, height, is_student)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Advance_Copro> python -u "c:\Advance_Copro\Assignment1.py"
first 25 5.9 True
PS C:\Advance_Copro>
```

2.



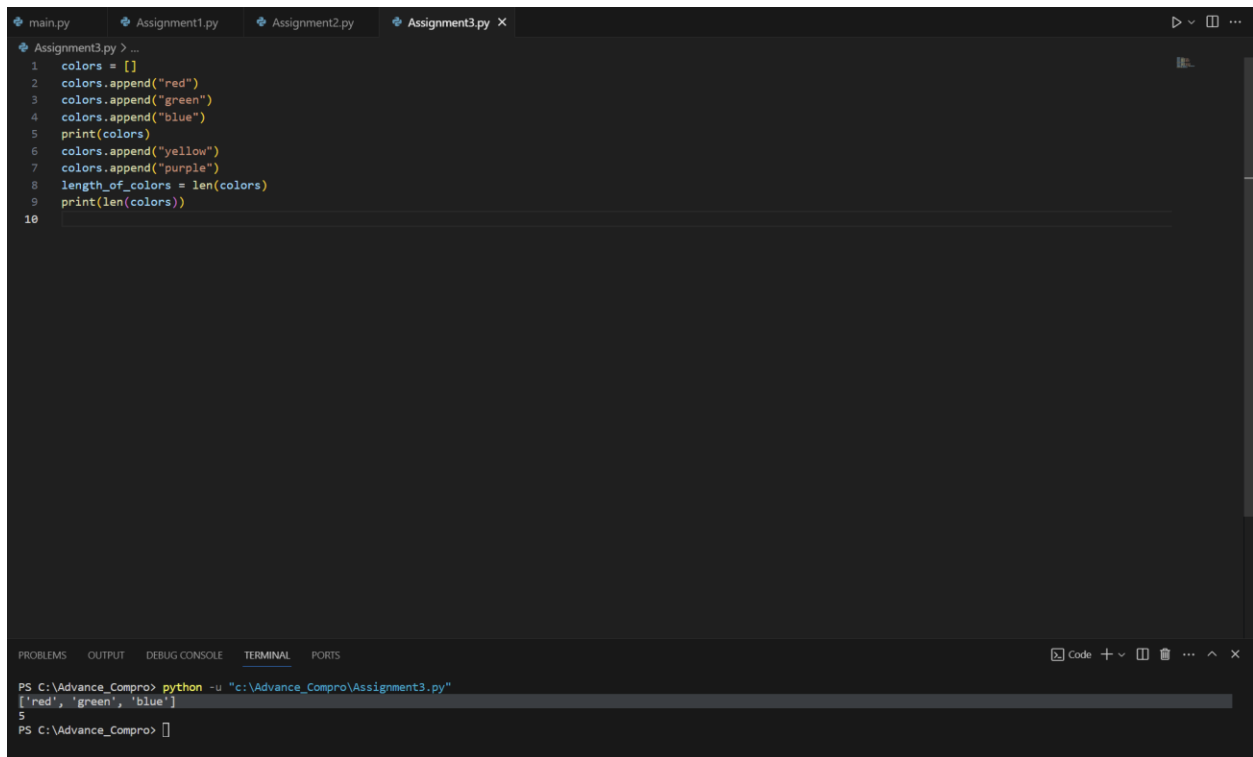
The screenshot shows a VS Code editor with four tabs: main.py, Assignment1.py, Assignment2.py (active), and Assignment3.py. The active file, Assignment2.py, contains the following Python code:

```
1 sentence = "Python programming is fun"
2 print(sentence.upper())
3 new_sentence = sentence.replace("fun", "awesome")
4 print(new_sentence)
5 split_sentence = sentence.split()
6 print(split_sentence)
7
8
```

Below the editor, the TERMINAL panel shows the command and output:

```
PS C:\Advance_Compro> python -u "c:\Advance_Compro\Assignment2.py"
PYTHON PROGRAMMING IS FUN
Python programming is awesome
['Python', 'programming', 'is', 'fun']
PS C:\Advance_Compro>
```

3.



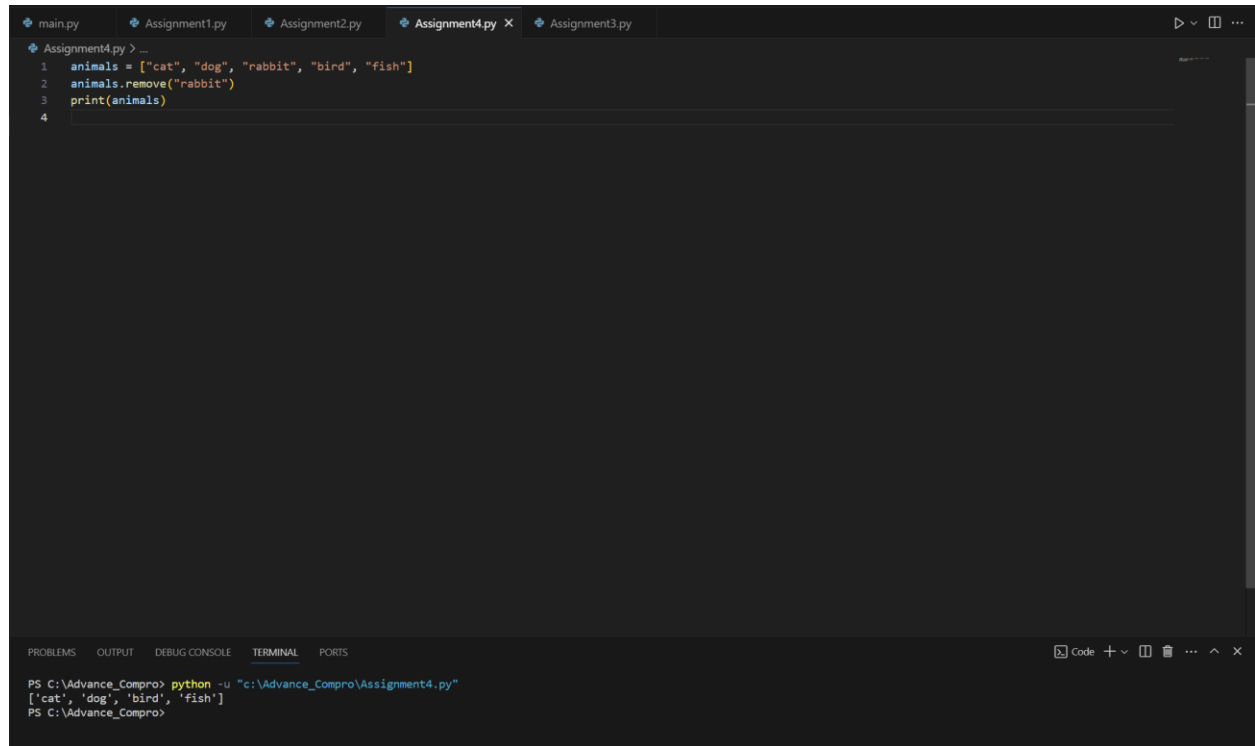
The screenshot shows a VS Code editor with four tabs: main.py, Assignment1.py, Assignment2.py, and Assignment3.py (active). The active file, Assignment3.py, contains the following Python code:

```
1 colors = []
2 colors.append("red")
3 colors.append("green")
4 colors.append("blue")
5 print(colors)
6 colors.append("yellow")
7 colors.append("purple")
8 length_of_colors = len(colors)
9 print(len(colors))
10
```

Below the editor, the TERMINAL panel shows the command and output:

```
PS C:\Advance_Compro> python -u "c:\Advance_Compro\Assignment3.py"
['red', 'green', 'blue']
5
PS C:\Advance_Compro>
```

4.



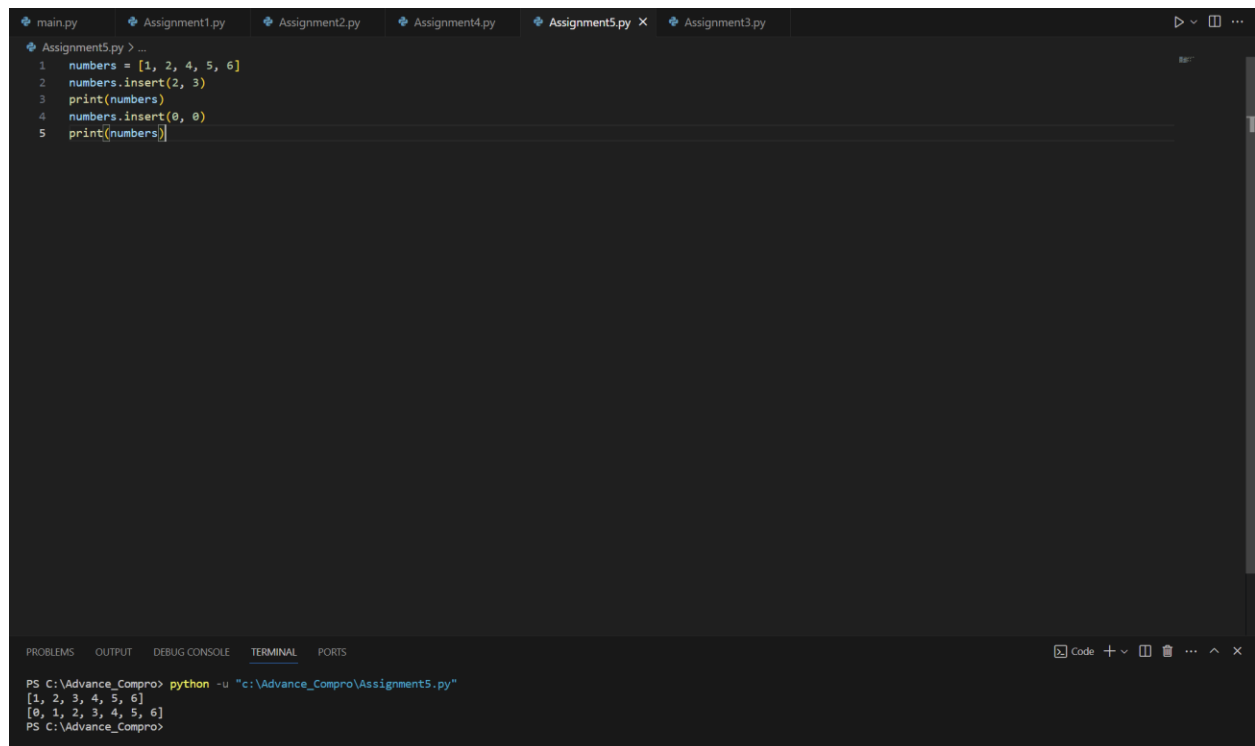
The screenshot shows a code editor with several tabs: main.py, Assignment1.py, Assignment2.py, Assignment4.py (active), and Assignment3.py. The active file, Assignment4.py, contains the following Python code:

```
1 animals = ["cat", "dog", "rabbit", "bird", "fish"]
2 animals.remove("rabbit")
3 print(animals)
4
```

Below the code editor, the terminal window shows the command and output:

```
PS C:\Advance_Copro> python -u "c:\Advance_Copro\Assignment4.py"
['cat', 'dog', 'bird', 'fish']
PS C:\Advance_Copro>
```

5.



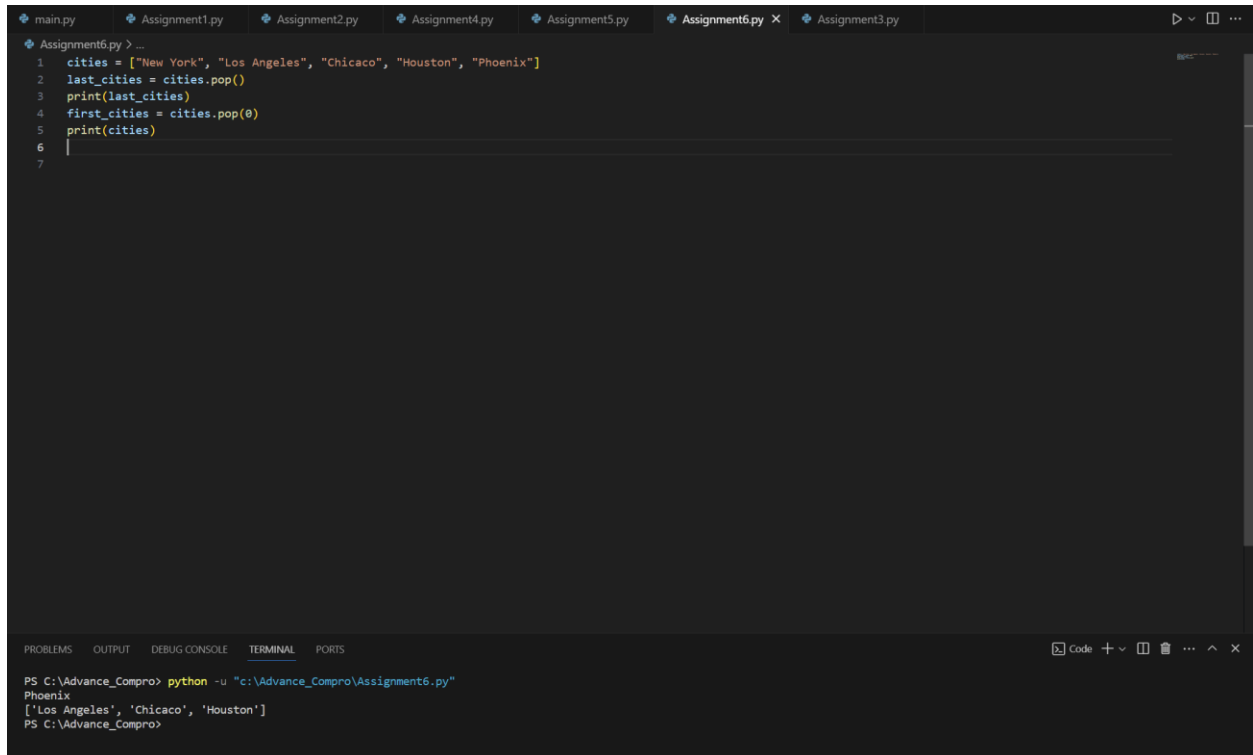
The screenshot shows a code editor with several tabs: main.py, Assignment1.py, Assignment2.py, Assignment4.py, Assignment5.py (active), and Assignment3.py. The active file, Assignment5.py, contains the following Python code:

```
1 numbers = [1, 2, 4, 5, 6]
2 numbers.insert(2, 3)
3 print(numbers)
4 numbers.insert(0, 0)
5 print(numbers)
```

Below the code editor, the terminal window shows the command and output:

```
PS C:\Advance_Copro> python -u "c:\Advance_Copro\Assignment5.py"
[1, 2, 3, 4, 5, 6]
[0, 1, 2, 3, 4, 5, 6]
PS C:\Advance_Copro>
```

6.



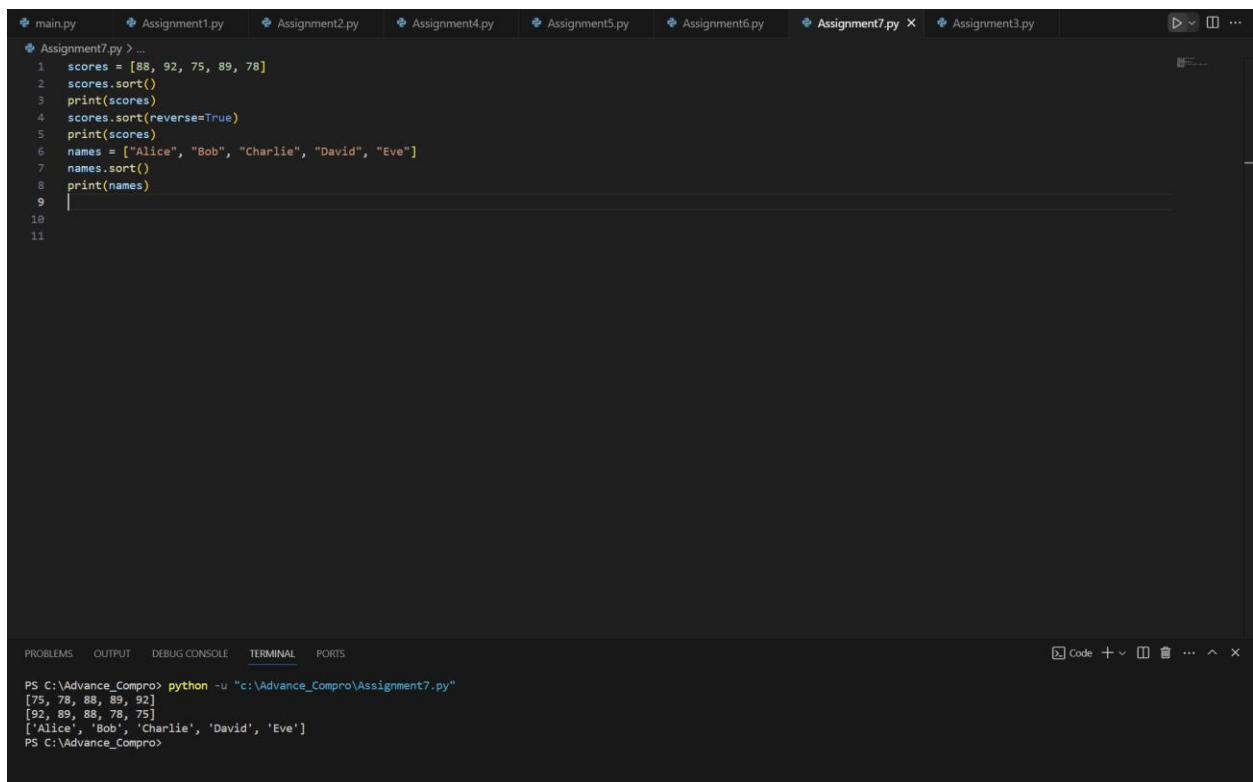
The screenshot shows a code editor with several tabs: main.py, Assignment1.py, Assignment2.py, Assignment4.py, Assignment5.py, Assignment6.py (active), and Assignment3.py. The active file, Assignment6.py, contains the following Python code:

```
1 cities = ["New York", "Los Angeles", "Chicaco", "Houston", "Phoenix"]
2 last_cities = cities.pop()
3 print(last_cities)
4 first_cities = cities.pop(0)
5 print(cities)
6
7
```

Below the code editor is a terminal window with the following output:

```
PS C:\Advance_Compro> python -u "c:\Advance_Compro\Assignment6.py"
Phoenix
['Los Angeles', 'Chicaco', 'Houston']
PS C:\Advance_Compro>
```

7.



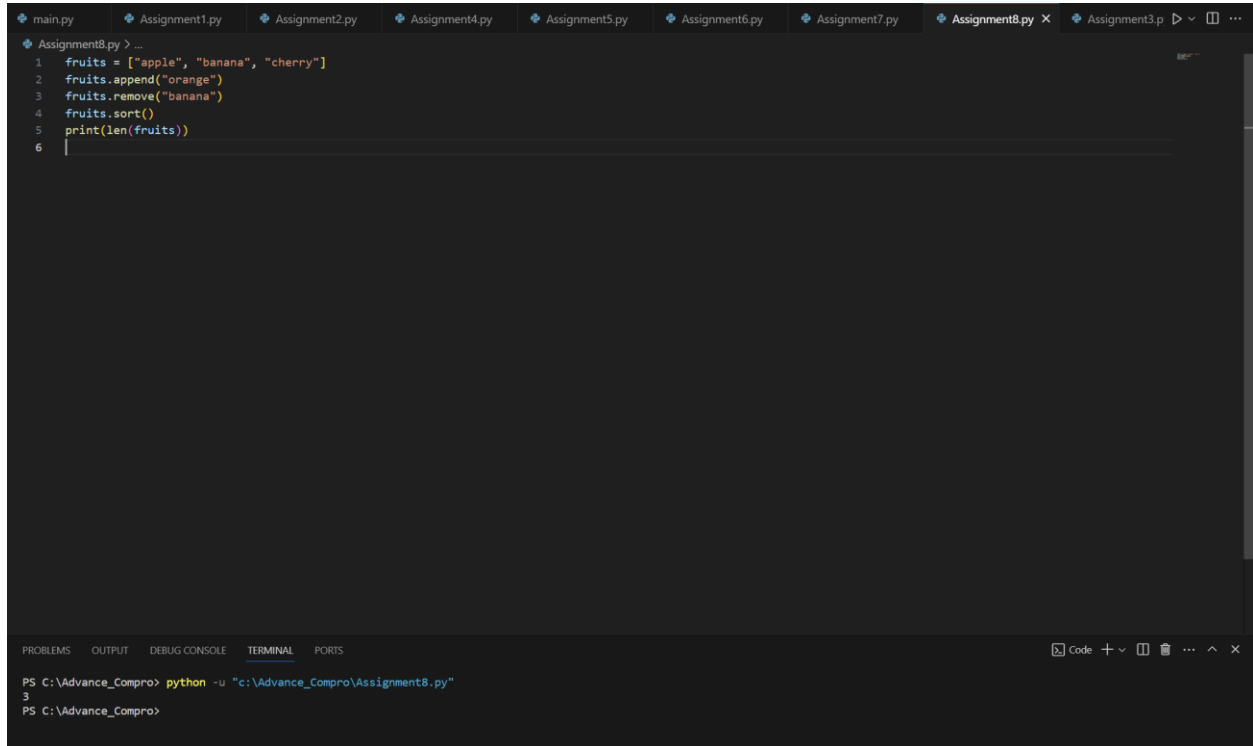
The screenshot shows a code editor with several tabs: main.py, Assignment1.py, Assignment2.py, Assignment4.py, Assignment5.py, Assignment6.py, Assignment7.py (active), and Assignment3.py. The active file, Assignment7.py, contains the following Python code:

```
1 scores = [88, 92, 75, 89, 78]
2 scores.sort()
3 print(scores)
4 scores.sort(reverse=True)
5 print(scores)
6 names = ["Alice", "Bob", "Charlie", "David", "Eve"]
7 names.sort()
8 print(names)
9
10
11
```

Below the code editor is a terminal window with the following output:

```
PS C:\Advance_Compro> python -u "c:\Advance_Compro\Assignment7.py"
[75, 78, 88, 89, 92]
[92, 89, 88, 78, 75]
['Alice', 'Bob', 'Charlie', 'David', 'Eve']
PS C:\Advance_Compro>
```

8.



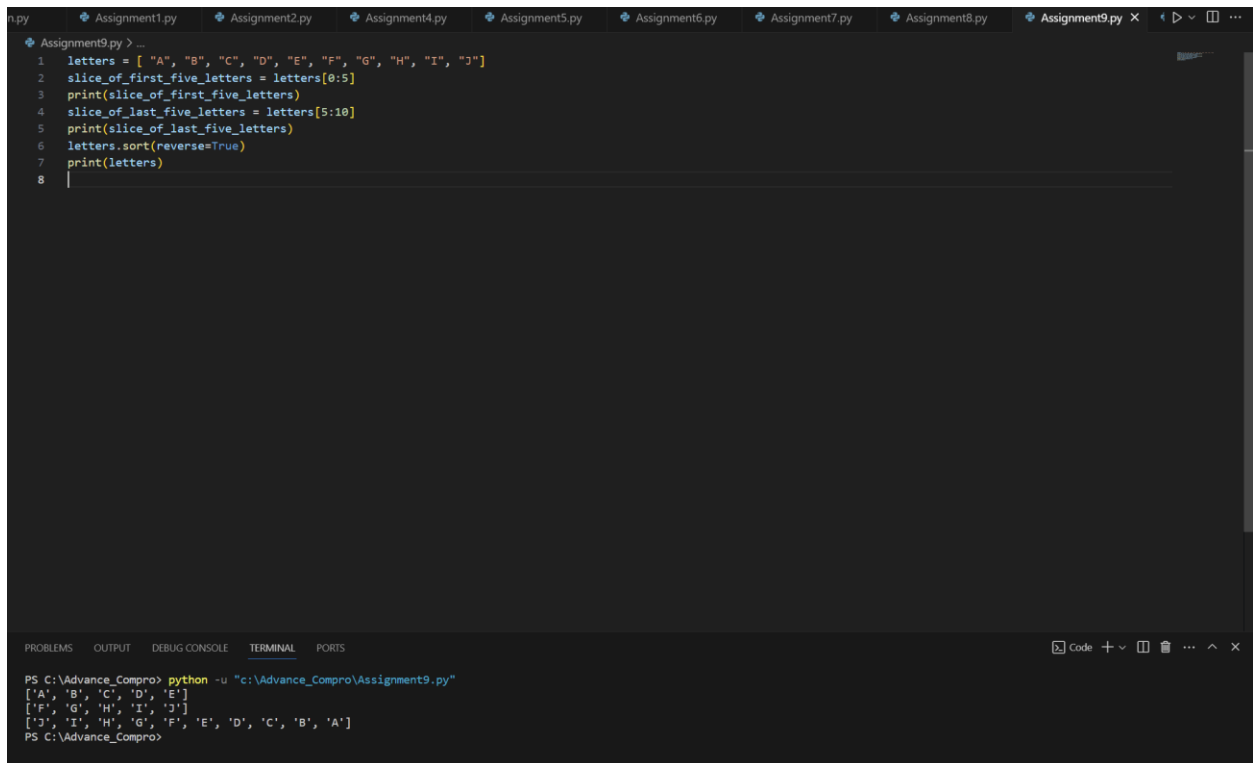
The screenshot shows a code editor with a tab for Assignment8.py. The code in the editor is as follows:

```
1 fruits = ["apple", "banana", "cherry"]
2 fruits.append("orange")
3 fruits.remove("banana")
4 fruits.sort()
5 print(len(fruits))
6
```

Below the editor, the terminal shows the command to run the script and its output:

```
PS C:\Advance_Copro> python -u "c:\Advance_Copro\Assignment8.py"
3
PS C:\Advance_Copro>
```

9.



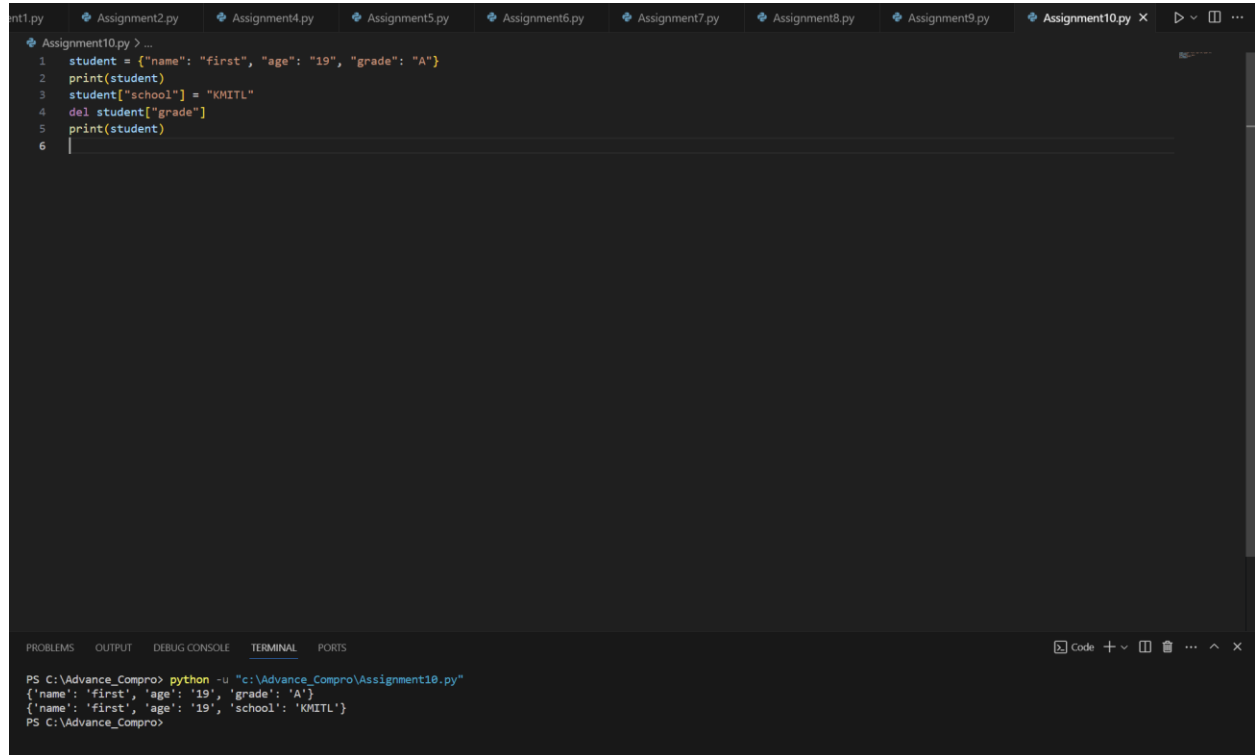
The screenshot shows a code editor with a tab for Assignment9.py. The code in the editor is as follows:

```
1 letters = ["A", "B", "C", "D", "E", "F", "G", "H", "I", "J"]
2 slice_of_first_five_letters = letters[0:5]
3 print(slice_of_first_five_letters)
4 slice_of_last_five_letters = letters[5:10]
5 print(slice_of_last_five_letters)
6 letters.sort(reverse=True)
7 print(letters)
8
```

Below the editor, the terminal shows the command to run the script and its output:

```
PS C:\Advance_Copro> python -u "c:\Advance_Copro\Assignment9.py"
['A', 'B', 'C', 'D', 'E']
['F', 'G', 'H', 'I', 'J']
['J', 'I', 'H', 'G', 'F', 'E', 'D', 'C', 'B', 'A']
PS C:\Advance_Copro>
```

10.



The image shows a Visual Studio Code editor window with a dark theme. The top bar displays several open files: Assignment1.py, Assignment2.py, Assignment4.py, Assignment5.py, Assignment6.py, Assignment7.py, Assignment8.py, Assignment9.py, and Assignment10.py. The active file is Assignment10.py, which contains the following Python code:

```
1 student = {"name": "first", "age": "19", "grade": "A"}
2 print(student)
3 student["school"] = "KMITL"
4 del student["grade"]
5 print(student)
6
```

Below the code editor is a panel with tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is selected, showing the command prompt output of running the script:

```
PS C:\Advance_Compro> python -u "c:\Advance_Compro\Assignment10.py"
{'name': 'first', 'age': '19', 'grade': 'A'}
{'name': 'first', 'age': '19', 'school': 'KMITL'}
```