

The screenshot shows the VS Code editor with the file `unit 5 Collections.py` open. The code defines a function `letterGrade(score)` that returns a letter grade based on the score. It then prompts the user for their name and five grades.

```
1 def letterGrade(score): 1 usage
8     elif score >= 60:
9         return "D"
10    else:
11        return "F"
12
13    studentName = input("Please enter your name:\n")
14
15    grade1 = float(input("Enter Grade 1:"))
16    grade2 = float(input("Enter grade 2:"))
17    grade3 = float(input("Enter Grade 3:"))
18    grade4 = float(input("Enter Grade 4:"))
19    grade5 = float(input("Enter Grade 5:"))
20
21    grades = [grade1, grade2, grade3, grade4, grade5]
```

The Run console shows the execution of the script with the following output:

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
Jeremiah
Enter Grade 1:47
Enter grade 2:59
Enter Grade 3:93
Enter Grade 4:70
Enter Grade 5:89

Student Report
Name Jeremiah
Average 71.6
Letter Grade: C

Process finished with exit code 0
```

The screenshot shows the VS Code editor with the file `unit 5 Collections.py` open. The code continues from the previous screenshot, calculating the average grade and printing the student report.

```
16    grade2 = float(input("Enter grade 2:"))
17    grade3 = float(input("Enter Grade 3:"))
18    grade4 = float(input("Enter Grade 4:"))
19    grade5 = float(input("Enter Grade 5:"))
20
21    grades = [grade1, grade2, grade3, grade4, grade5]
22    average = sum(grades) / 5
23    letter = letterGrade(average)
24
25    print("\n Student Report")
26    print("Name:", studentName)
27    print("Average:", average)
28    print("Letter Grade:", letter)
29
```

The Run console shows the execution of the script with the following output:

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
Torrance
Enter Grade 1:94
Enter grade 2:72
Enter Grade 3:91
Enter Grade 4:67
Enter Grade 5:100

Student Report
Name: Torrance
Average: 84.8
Letter Grade: B

Process finished with exit code 0
```

The screenshot shows a Python IDE with a project named 'cop1000'. The file 'unit 5 Collections.py' is open. The code defines a function 'letterGrade(score)' and a main program that prompts the user for a name and five grades. It calculates the average and assigns a letter grade based on the 'letterGrade' function.

```
16 grade2 = float(input("Enter grade 2:"))
17 grade3 = float(input("Enter Grade 3:"))
18 grade4 = float(input("Enter Grade 4:"))
19 grade5 = float(input("Enter Grade 5:"))
20
21 grades = [grade1, grade2, grade3, grade4, grade5]
22 average = sum(grades) / 5
23 letter = letterGrade(average)
24
25 print("\n Student Report")
26 print("Name:", studentName)
27 print("Average:", average)
28 print("Letter Grade:", letter)
29
30
```

Run unit 5 Collections

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
Mary
Enter Grade 1:92
Enter grade 2:44
Enter Grade 3:94
Enter Grade 4:83
Enter Grade 5:79

Student Report
Name: Mary
Average: 78.4
Letter Grade: C

Process finished with exit code 0
```

The screenshot shows the same Python IDE with the same file 'unit 5 Collections.py'. The code is identical to the first screenshot. The output shows the name 'Beth', an average of 65.6, and a letter grade of 'D'.

```
16 grade2 = float(input("Enter grade 2:"))
17 grade3 = float(input("Enter Grade 3:"))
18 grade4 = float(input("Enter Grade 4:"))
19 grade5 = float(input("Enter Grade 5:"))
20
21 grades = [grade1, grade2, grade3, grade4, grade5]
22 average = sum(grades) / 5
23 letter = letterGrade(average)
24
25 print("\n Student Report")
26 print("Name:", studentName)
27 print("Average:", average)
28 print("Letter Grade:", letter)
29
30
```

Run unit 5 Collections

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
Beth
Enter Grade 1:77
Enter grade 2:32
Enter Grade 3:27
Enter Grade 4:100
Enter Grade 5:92

Student Report
Name: Beth
Average: 65.6
Letter Grade: D

Process finished with exit code 0
```

The screenshot shows a Python IDE with a project named 'cop1000'. The file 'unit 5 Collections.py' is open, displaying the following code:

```
16 grade2 = float(input("Enter grade 2:"))
17 grade3 = float(input("Enter Grade 3:"))
18 grade4 = float(input("Enter Grade 4:"))
19 grade5 = float(input("Enter Grade 5:"))
20
21 grades = [grade1, grade2, grade3, grade4, grade5]
22 average = sum(grades) / 5
23 letter = LetterGrade(average)
24
25 print("\n Student Report")
26 print("Name:", studentName)
27 print("Average:", average)
28 print("Letter Grade:", letter)
```

The 'Run' panel shows the execution output:

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
John
Enter Grade 1:100
Enter grade 2:100
Enter Grade 3:100
Enter Grade 4:99
Enter Grade 5:82

Student Report
Name: John
Average: 96.2
Letter Grade: A

Process finished with exit code 0
```

The screenshot shows the same Python IDE with the same code as above. The 'Run' panel shows the execution output for a different user:

```
C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\.venv\Scripts\python.exe "C:\Users\jweth\OneDrive\Desktop\valencia\cop1000\unit 5 Collections.py"
Please enter your name:
Larry
Enter Grade 1:44
Enter grade 2:89
Enter Grade 3:77
Enter Grade 4:66
Enter Grade 5:100

Student Report
Name: Larry
Average: 75.2
Letter Grade: C

Process finished with exit code 0
```