





The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for running, debugging, and other IDE functions. The 'Project' sidebar on the left lists files such as `.venv\library root`, `Lib`, `Scripts`, `.gitignore`, `pyenv.cfg`, and several Python files including `Assignment 1.py`, `Assignment 2.py`, `Assignment 4 functions.py`, `BodyMassIndex.py`, `Data structures.py`, `Day 47.py`, `Dictionaries.py`, `File handling.py`, `Functions.py`, `Month names.py`, `new.txt`, `PoundsToDollars.py`, and `Sample.txt`. The main editor window displays the code for `Assignment 4 functions.py`. The code defines a function `find_maximum(numbers)` that iterates through a list of integers to find the maximum value. The list `numbers` is initialized with `[3, 5, 7, 2, 8, -1, 4]`. The function returns `None` if the list is empty, and the maximum value otherwise. The code is as follows:

```
16 # 3. Write a Python function find_maximum(numbers) that takes a list of integers
17 # Use a loop to iterate through the list and compare values.
18 def find_maximum(numbers):
19     numbers = [3, 5, 7, 2, 8, -1, 4]
20     if not numbers:
21         return None
22     Maximum_value = numbers[0]
23     for num in numbers:
24         if num > Maximum_value:
25             Maximum_value = num
26     return Maximum_value
27 numbers = [3, 5, 7, 2, 8, -1, 4]
28 print("Maximum value:", find_maximum(numbers))
```

The 'Run' console at the bottom shows the execution command: `C:\Users\ajayc\PycharmProjects\entri_d41_PythonProject\.venv\Scripts\python.exe "C:\Users\ajayc\PycharmProjects\entri_d41_PythonProject\Assignment 4 functions.py"`. The output of the program is `Maximum value: 8`. The status bar at the bottom indicates the file is `entri_d41_PythonProject > Assignment 4 functions.py`, with 24:28 (320 chars, 10 line breaks), CRLF, UTF-8, 4 spaces, and Python 3.13 (entri\_d41\_PythonProject).









