

Question: Writing a generator to load data in chunks (3)

Correct Answer and Explanation:

```
Code Implementation:
# Initialize an empty dictionary: counts_dict
counts_dict = {}

# Open a connection to the file
with open('world_dev_ind.csv') as file:

# Iterate over the generator from read_large_file()
for line in read_large_file(file):
    # Split the current line into a list: row
    row = line.split(',')

# Get the value for the first column: first_col
first_col = row[0]

# If the column value is in the dict, increment its value
if first_col in counts_dict.keys():
```

```
counts_dict[first_col] += 1
else:
    # Else, add to the dict and set value to 1
    counts_dict[first_col] = 1
```

Print the resulting dictionary
print(counts_dict)

Explanation:

- 1. `counts dict = { } `:
 - Initializes an empty dictionary to store counts of the first column values.
- 2. `with open('world dev ind.csv') as file: `:
 - Opens the file `world dev ind.csv` for reading.
- 3. `for line in read large file(file):`:
- Iterates over each line of the file using the generator function `read large file()`.
- 4. row = line.split(','):
 - Splits the current line into a list of values using a comma as the delimiter.
- 5. int col = row[0]:
 - Extracts the first value of the row, corresponding to the first column.
- 6. `if first col in counts dict.keys(): `:
- Checks if the value of `first_col` is already in the dictionary. If true, increments its count.
- 7. `else:`:
- If the value is not present in the dictionary, adds it with an initial count of 1.
- 8. `print(counts dict)`:
- Prints the resulting dictionary containing counts of values in the first column.