



## Challenge 3.2 :

Exit

```
13     Student("Alice", "A001",
14           3.8),
15     Student("Bob", "A002",
16           3.5),
17     Student("Charlie", "A003",
18           3.9),
19     Student("David", "A004",
20           3.7)
21 ]
22
23 # Sort students based on CGPA
24 # in descending order
25 sorted_students =
26     sort_students(students)
27
28 # Print the sorted list of
29 # students
30 for student in sorted_students:
31     print(f"Name:
32           {student.name}, Roll Number:
33           {student.roll_number}, CGPA:
34           {student.cgpa}")
```

Ln 1, Col 1 • Spaces: 2 History 🕒



main.py



Run





## Challenge 3.2 :

Exit

```
1 v class Student:
2 v     def __init__(self, name,
   roll_number, cgpa):
3         self.name = name
4         self.roll_number =
   roll_number
5         self.cgpa = cgpa
6
7 v def
   sort_students(student_list):
8     sorted_students =
   sorted(student_list,
   key=lambda student:
   student.cgpa, reverse=True)
9     return sorted_students
10
11 # Example usage
12 v students = [
13     Student("Alice", "A001",
   3.8),
14     Student("Bob", "A002",
   3.5).
```

Ln 1, Col 1 • Spaces: 2 History 🕒



main.py



Run





## Challenge 3.1 :

Exit

```
10 # Example usage
11 products = ["Apple", "Banana",
12             "Orange", "Apple", "Orange"]
13 target_product = "Apple"
14 # Perform a linear search for
15   the target product
16 result_indices =
17   linear_search_product(products,
18   target_product)
19 # Print the result
20 if result_indices:
21     print(f"The product
22         '{target_product}' was found
23         at indices: {result_indices}")
24 else:
25     print(f"The product
26         '{target_product}' was not
27         found.")
```

Ln 10, Col 16 • Spaces: 2 History 🕒



main.py



Run





## Challenge 3.1 :

Exit

```
1  ~
   ~linear_search_product(product_l
   ~ist, target_product):
2  ~indices = []
3
4  ~for index, product in
   ~enumerate(product_list):
5  ~    if product ==
   ~target_product:
6
   ~indices.append(index)
7
8  ~return indices
9
10 # Example usage
11 products = ["Apple", "Banana",
   ~"Orange", "Apple", "Orange"]
12 target_product = "Apple"
13
14 # Perform a linear search for
   ~the target product
15 result indices =
```

Ln 10, Col 16 • Spaces: 2 History 🕒



main.py



Run

