



Challenge 3.1 :

Exit

```
1  def
   linear_search_product(product_list,
   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",
   "apple", "orange", "kiwi", "apple"]
12 target = "apple"
13 result =
   linear_search_product(products,
   target)
14 print(f"Indices of '{target}' in the
   list: {result}")
```



Challenge 3.1 :

 Exit

Indices of 'apple' in the list: [0, 2, 5]



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Challenge 3.2 :

 Exit

```
1 class Student:
2     def __init__(self, name,
3         roll_number, cgpa):
4         self.name = name
5         self.roll_number =
6         roll_number
7         self.cgpa = cgpa
8
9 def sort_students(student_list):
10     # Sort the student list in
11     # descending order of CGPA
12     sorted_students =
13     sorted(student_list, key=lambda
14         student: student.cgpa, reverse=True)
15     return sorted_students
16
17 # Example usage:
18
19 # Create a list of Student objects
20 students = [
21     Student("Alice", "A101", 3.8),
22     Student("Bob", "B102", 3.5),
23     Student("Charlie", "C103", 3.9),
24     Student("David", "D104", 3.7),
25 ]
26
27 # Sort the list of students by CGPA
28 # in descending order
```

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Challenge 3.2 :

 Exit

```
sorted(student_list, key=lambda
student: student.cgpa, reverse=True)
10     return sorted_students
11
12 # Example usage:
13
14 # Create a list of Student objects
15 students = [
16     Student("Alice", "A101", 3.8),
17     Student("Bob", "B102", 3.5),
18     Student("Charlie", "C103", 3.9),
19     Student("David", "D104", 3.7),
20 ]
21
22 # Sort the list of students by CGPA
    in descending order
23 sorted_students =
    sort_students(students)
24
25 # Print the sorted list of students
26 for student in sorted_students:
27     print(f>Name: {student.name},
    Roll Number: {student.roll_number},
    CGPA: {student.cgpa}")
28
```

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Name: Charlie, Roll Number: C103, CGPA: 3.9

Name: Alice, Roll Number: A101, CGPA: 3.8

Name: David, Roll Number: D104, CGPA: 3.7

Name: Bob, Roll Number: B102, CGPA: 3.5



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