

```
def sort_students(student_list):
    sorted_students = sorted(student_list, key=lambda x: x.cgpa, reverse=True)
    return sorted_students

class Student:
    def __init__(self, name, roll_number, cgpa):
        self.name = name
        self.roll_number = roll_number
        self.cgpa = cgpa

students = [
    Student("Ajith", "A101", 8.3),
    Student("Arun", "B102", 9.5),
    Student("Tom", "C103", 5.6),
    Student("keerthana", "D104", 10.0)
]

sorted_students = sort_students(students)

for student in sorted_students:
    print(f"Name: {student.name}, Roll Number: {student.roll_number}, CGPA: {student.cgpa}")
```

```
➤ /nix/store/zqk3m21442kvpjwd3rh41wdavqkzkyi  
k-python3-wrapper/bin/python3 $file
```

```
Name: keerthana, Roll Number: D104, CGPA: 10  
.0
```

```
Name: Arun, Roll Number: B102, CGPA: 9.5
```

```
Name: Ajith, Roll Number: A101, CGPA: 8.3
```

```
Name: Tom, Roll Number: C103, CGPA: 5.6
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```
def LinearSearchProduct(productlist ,targetProduct):  
    Indices = []  
    for index, product in enumerate(productlist):  
  
        if product==targetProduct:  
            Indices.append(index)  
  
    return Indices  
products = ["apple","orange","grape","apple","banana","apple"]  
target = "apple"  
target1 = "grape"  
result=LinearSearchProduct(products,target)  
print(result)
```

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➤ /nix/store/zqk3m21442kvpjwd3rh41wdavqkzk  
yik-python3-wrapper/bin/python3 $file  
[0, 3, 5]  
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