$filtered\_students = dict(filter(lambda item: item[1][0] > 6.0 \ and \ item[1][1] > 70, \ student\_data.items()))$ 

'Kierra Gentry': (6.0, 68),
'Pierre Cox': (5.8, 66)

```
print("Original Dictionary:")
         print(student_data)
         print("Height > 6ft and Weight > 70kg:")
         print(filtered_students)
         Original Dictionary:
         {'Cierra Vega': (6.2, 71), 'Alden Cantrell': (5.9, 65), 'Kierra Gentry': (6.0, 68), 'Pierre Cox': (5.8, 66)}
         Height > 6ft and Weight > 70kg:
         {'Cierra Vega': (6.2, 71)}
In [21]: original_list = [12, 0, None, 23, None, -55, 234, 89, None, 0, 6, -12]
         filtered_list = list(filter(lambda x: x is not None, original_list))
         print(f"Remove None value from the said list: \n {filtered_list}")
         Remove None value from the said list:
          [12, 0, 23, -55, 234, 89, 0, 6, -12]
In [1]: from functools import reduce
         list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
         product = reduce(lambda x, y: x * y, list1)
         print(f"Product of the said list numbers: {product}")
         Product of the said list numbers: 3628800
In [2]: from functools import reduce
         original_list = [4, 3, 2, 2, -1, 18]
         result = reduce(lambda x, y: x * y, original_list)
print("Multiply all the numbers of the said list:", result)
         Multiply all the numbers of the said list: -864
In [3]: mixed_list = [19, 'red', 12, 'green', 'blue', 10, 'white', 'green', 1]
         sorted_list = sorted(mixed_list, key=lambda x: (isinstance(x, int), x))
         print(f"Sort the said mixed list of integers and strings: {sorted_list}")
         Sort the said mixed list of integers and strings: ['blue', 'green', 'green', 'red', 'white', 1, 10, 12, 19]
In [4]: points = [(1, 2), (5, 3), (0, 7), (3, 1)]
         sorted_points = sorted(points, key=lambda point: sum(point))
         print(sorted_points)
         [(1, 2), (3, 1), (0, 7), (5, 3)]
In [5]: list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
         list2 = [2, 4, 6, 8]
         list1 = list(filter(lambda x: x not in list2, list1))
         print("Updated list1:", list1)
         Updated list1: [1, 3, 5, 7, 9, 10]
In [7]: from collections import Counter
         original_list = [3, 4, 5, 8, 0, 3, 8, 5, 0, 3, 1, 5, 2, 3, 4, 2]
         counted_items = dict(Counter(original_list))
         sorted_counted_items = dict(sorted(counted_items.items()))
         print("Count the occurrences of the items in the said list:")
         print(sorted_counted_items)
         Count the occurrences of the items in the said list:
         {0: 2, 1: 1, 2: 2, 3: 4, 4: 2, 5: 3, 8: 2}
In [ ]:
```