We want to develop a project to help a furniture e-commerce company to store different types of information about their products. The project is ongoing. You will find the beginning of the project in furnitures.cpp file. You need to complete the following tasks

TASK 1:
Define classes Bed, Sofa, DiningTable which will inherit Furniture class. Bed has BedSize{Single, SemiDouble,Double}, Sofa is categorized on SeatNumer{One, Two, Three, Four, Five}, DiningTable is categorized on ChairCount{Two,Four,Six}. Implement an appropriate constructor to store the information.

TASK 2:
Implement productDetails function which displays the information about the product. A sample output of product Bed is shown below:

```
-----------------------------------------------
Regular Price: 10000
Discounted Price: 9877
Material: Wood
Bed Size: Single
####################################################
```

```
-----------------------------------------------
Regular Price: 10000
Discounted Price: 9
Material: Wood
Bed Size: Single
####################################################
```

TASK 3:
Manager wants to add a product name for each type of their product. Take necessary actions so that a product name can be added for each product object. Modify productDetail function so that productName is also displayed.

TASK 4:
Implement sort_furniture_price(), it will sort the array in descending order based on the discounted price of furniture. You may need to add some member functions in the appropriate class.