CMPSCI4250 Project4

11/3/6

```
class Product:
1
2
        def __init__(self, name, price, discountPercent):
3
            self.\_\_name = name
4
            self.__price = price
            self.__discountPercent = discountPercent
5
6
7
        def getDiscountAmount(self):
8
            return self.__price * self.__discountPercent
9
10
        def getDiscountPrice(self):
            return self.__price - self.getDiscountAmount()
11
12
        def printDescription(self):
13
            return "name: " + self.__name + ", price: " + str(self.__price) + ", discountPercent: "
14
15
    class Book(Product):
16
        def __init__(self, author, name, price, discountPercent):
17
            self.__author = author
18
            Product.__init__(self, name, price, discountPercent)
19
20
21
        def printDescription(self):
            return "author: " + self.__author + ", " + Product.printDescription(self)
22
23
    class Movie(Product):
24
        def __init__(self, year, name, price, discountPercent):
25
            self.__year = year
26
            Product.__init__(self, name, price, discountPercent)
27
28
29
        def printDescription(self):
            return "year: " + str(self.__year) + ", " + Product.printDescription(self)
30
31
    product = Product("test", 10, 0.1)
32
    book = Book("me", "test1", 12, 0.5)
33
    movie = Movie(2019, "test2", 100, 0.2)
34
35
    print("Product description - " + product.printDescription())
36
    print("Book description - " + book.printDescription())
37
    print("Movie description - " + movie.printDescription())
```

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