## Brandon London Galina 4250 10/23/19 Project 4

```
class Product:
2
         def __init__(self, name, price, discountPercent):
 3
             self. name = name
            self.__price = price
 4
            self.__discountPercent = discountPercent
 5
 6
         def getDiscountAmount(self):
 7
          return self.__price * self.__discountPercent
 8
         def getDiscountPrice(self):
9
          return self.__price - self.getDiscountAmount()
10
         def printDescription(self):
            return "Name: " + self.__name + ", Price: " + str(self.__price) + ", Discount Percent: " + str
11
             (self.__discountPercent) + ", Discount Amount: " + str(self.getDiscountAmount()) + ",
            discountPrice: " + str(self.getDiscountPrice())
12
     class Book(Product):
         def __init__(self, author, name, price, discountPercent):
13
14
             self. author = author
15
            Product.__init__(self, name, price, discountPercent)
16
         def printDescription(self):
           return "author: " + self.__author + ", " + Product.printDescription(self)
17
18
     class Movie(Product):
19
         def __init__(self, year, name, price, discountPercent):
            self.__year = year
20
21
            Product.__init__(self, name, price, discountPercent)
22
        def printDescription(self):
23
       return "Year: " + str(self.__year) + ", " + Product.printDescription(self)
24
25
     product = Product("Yeet", 10, 0.1)
     book = Book("Brandon London", "Yeeted", 12, 0.5)
26
    movie = Movie (2019, "Yeeter", 100, 0.2)
27
28
29
    print(product.printDescription())
30 print(book.printDescription())
31 print(movie.printDescription())
```

```
Name: Yeet, Price: 10, Discount Percent: 0.1, Discount Amount: 1.0, discountFrice: 9.0
author: Brandon London, Name: Yeeted, Price: 12, Discount Percent: 0.5, Discount Amount: 6.0, discountPrice: 6.0
Year: 2019, Name: Yeeter, Price: 100, Discount Percent: 0.2, Discount Amount: 20.0, discountPrice: 80.0
```

```
Code:
```

```
class Product:
  def init (self, name, price, discountPercent):
      self. name = name
       self. price = price
       self. discountPercent = discountPercent
  def getDiscountAmount(self):
       return self. price * self. discountPercent
  def getDiscountPrice(self):
       return self. price - self.getDiscountAmount()
  def printDescription(self):
       return "Name: " + self. name + ", Price: " + str(self. price) +
", Discount Percent: " + str(self. discountPercent) + ", Discount Amount:
" + str(self.getDiscountAmount()) + ", discountPrice: " +
str(self.getDiscountPrice())
class Book(Product):
  def init (self, author, name, price, discountPercent):
       self. author = author
       Product. init (self, name, price, discountPercent)
  def printDescription(self):
       return "author: " + self. author + ", " +
Product.printDescription(self)
class Movie(Product):
  def init (self, year, name, price, discountPercent):
      self.__year = year
       Product. init (self, name, price, discountPercent)
  def printDescription(self):
       return "Year: " + str(self. year) + ", " +
Product.printDescription(self)
product = Product("Yeet", 10, 0.1)
book = Book("Brandon London", "Yeeted", 12, 0.5)
movie = Movie (2019, "Yeeter", 100, 0.2)
print(product.printDescription())
print(book.printDescription())
print(movie.printDescription())
```