

MODULE 4 ASSIGNMENT

SOLUTION:

```
class Book:
    def __init__(self, title="", author="", publisher="", price=0, author_royalty=0,
copies_sold=0):
        self.title = title
        self.author = author
        self.publisher = publisher
        self.price = price
        self.author_royalty = author_royalty
        self.copies_sold = copies_sold

    # getter methods
    def get_title(self):
        return self.title

    def get_author(self):
        return self.author

    def get_publisher(self):
        return self.publisher

    def get_price(self):
        return self.price

    def get_author_royalty(self):
        return self.author_royalty

    def get_copies_sold(self):
        return self.copies_sold

    # setter methods
    def set_title(self, x):
        self.title = x

    def set_author(self, x):
        self.author = x

    def set_publisher(self, x):
        self.publisher = x

    def set_price(self, x):
        self.price = x

    def set_author_royalty(self, x):
        self.author_royalty = x
```

```
def set_copies_sold(self, x):  
    self.copies_sold = x
```

```
def royalty(self):  
    if self.get_copies_sold() <= 500:  
        return 0.1 * self.price  
    elif self.get_copies_sold() <= 1000:  
        return 0.125 * self.price  
    else:  
        return 0.15 * self.price
```

```
class Ebook(Book):  
    def __init__(self, format="", title="", author="", publisher="", price=0, author_royalty=0,  
copies_sold=0):  
        self.format = format  
        super().__init__(title, author, publisher, price, author_royalty, copies_sold)  
  
    def royalty(self):  
        val = super().royalty()  
        print(val)  
        return val - (0.12 * val)
```

```
def __main__():  
    book = Ebook("pdf", "", "", "", 190, 0, 230)  
    print(book.royalty())
```

```
if __name__ == "__main__":  
    __main__()
```