

INTERMEDIATE PROGRAMMING
Package Activity

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April 26, 2022

SOURCE CODE

(class: Author)

```
package objectMethods;

class Author
{
    private String author;
    private String email;
    private String gender;

    Author(String author, String email, String gender)
    {
        this.author = author;
        setEmail(email);
        setGender(gender);
    }

    public String getAuthor()
    {
        return author;
    }

    public void setAuthor(String author)
    {
        this.author = author;
    }

    public String getEmail()
    {
        return email;
    }

    public void setEmail(String email)
    {
        if (emailValidity(email))
        {
            this.email = email;
        }
        else
        {
            System.out.println("Invalid email! Set to empty string.");
            this.email = " ";
        }
    }

    public String getGender()
    {
        return gender;
    }
}
```

```

    }

    public void setGender(String gender)
    {
        if (gender == "Male" || gender == "Female")
        {
            this.gender = gender;
        }
        else
        {
            System.out.println("Invalid gender! Set to Unknown.");
            this.gender = "Unknown";
        }
    }
}

boolean emailValidity(String email)
{
    for (int count = 0; count < email.length(); count++)
    { //e-mails must contain '@'
        if (email.charAt(count) == '@')
        {
            return true;
        }
    }
    return false;
}

void print()
{
    System.out.println("AUTHOR\t: " + author);
    System.out.println("GENDER\t: " + gender);
    System.out.println("E-MAIL\t: " + email);
    System.out.println();
}
}

```

(class: Book)

```
package objectMethods;
```

```
class Book
```

```
{
```

```
    private String bookTitle;
```

```
    private Author author;
```

```
    private double price;
```

```
    private int stock = 0;
```

```
    Book(String bookTitle, Author author, double price, int stock)
```

```
    {
```

```
        this.bookTitle = bookTitle;
```

```
        this.author = author;
```

```
        setPrice(price);
```

```
        setStock(stock);
```

```
    }
```

```
    public String getBookTitle()
```

```
    {
```

```
        return bookTitle;
```

```
    }
```

```
    public void setBookTitle(String bookTitle)
```

```
    {
```

```
        this.bookTitle = bookTitle;
```

```
    }
```

```
    public Author getAuthor()
```

```
    {
```

```
        return author;
```

```
    }
```

```
    public void setAuthor(Author author)
```

```
    {
```

```
        this.author = author;
```

```
    }
```

```
    public double getPrice()
```

```
    {
```

```
        return price;
```

```
    }
```

```
    public void setPrice(double price)
```

```
    {
```

```
        if (price >= 0)
```

```
        {
```

```
            this.price = price;
```

```
        }
```

```
        else
```

```
        {
```

```
            System.out.println("Note: Price should be positive! Set to 0");
```

```
            this.price = 0.0;
```

```
        }
```

```

    }

    public int getStock()
    {
        return stock;
    }

    public void setStock(int stock)
    {
        if (stock >= 0)
        {
            this.stock = stock;
        }
        else
        {
            System.out.println("Book stocks cannot be negative! Set to 0\n\n");
        }
    }

    public String getAuthorName()
    {
        return author.getAuthor();
    }

    void print()
    {
        System.out.println("Book Title : " + bookTitle);
        author.print();
    }
}

```

Sample 1 (main class)	Sample 2 (main class)
<pre> package objectMethods; public class BookObject { public static void main(String[] args) { Author author1 = new Author("Marcus Laurence", "milaurence@neu.edu.ph", "Male"); author1.print(); Book bk1 = new Book("Java Book", author1, 1499, 10); bk1.print(); author1.setEmail("cuscus@gmail.com"); author1.print(); bk1.print(); bk1.getAuthor().setEmail("Laurence.marcus@gmail.com"); bk1.print(); } } </pre>	<pre> package objectMethods; public class BookObject { public static void main(String[] args) { Author author1 = new Author("Marcus Laurence", "milaurenceneu.edu.ph", "SheMale"); author1.print(); Book bk1 = new Book("Java Book", author1, -1499, -10); bk1.print(); author1.setEmail("cuscusgmail.com"); author1.print(); bk1.print(); bk1.getAuthor().setEmail("Laurence.marcusgmail.com"); bk1.print(); } } </pre>

SCREENSHOTS

<p>AUTHOR : Marcus Laurence GENDER : Male E-MAIL : milaurence@neu.edu.ph</p> <p>Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Male E-MAIL : milaurence@neu.edu.ph</p> <p>AUTHOR : Marcus Laurence GENDER : Male E-MAIL : cuscus@gmail.com</p> <p>Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Male E-MAIL : cuscus@gmail.com</p> <p>Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Male E-MAIL : Laurence.marcus@gmail.com</p>	<p>Invalid email! Set to empty string. Invalid gender! Set to Unknown. AUTHOR : Marcus Laurence GENDER : Unknown E-MAIL :</p> <p>Note: Price should be positive! Set to 0 Book stocks cannot be negative! Set to 0</p> <p>Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Unknown E-MAIL :</p> <p>Invalid email! Set to empty string. AUTHOR : Marcus Laurence GENDER : Unknown E-MAIL :</p> <p>Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Unknown E-MAIL :</p> <p>Invalid email! Set to empty string. Book Title : Java Book AUTHOR : Marcus Laurence GENDER : Unknown E-MAIL :</p>
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LINK FOR RUNNING VIDEO:

<https://drive.google.com/file/d/1artnufitkxWSbkeu0lzmY2KR6eXbVRqw/view?usp=sharing>