Exercise 3.1
/* Saket Bakshi, Period 6
Question 3.1 of Ch 3 project. This program prints a class name for a postcard sender.
*/

```java
public class Ch3ProjectQ3_1SBakshi
{
        public static void main(String[] args)
        {
                System.out.println("A black box name could be \"Postcard\"");
        }
}
```

```
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi> javac *.java
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi> java Ch3ProjectQ3_1SBakshi
A black box name could be "Postcard"
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi>
```

Exercise 3.2
/* Saket Bakshi, Period 6
Question 3.2 of Ch 3 project. This program declares a Postcard class for sending
postcards with the same message to different recipients.
*/

```java
public class Postcard
{
        //instance variables
        private String message;
        private String sender;
        private String recipient;

        /**Makes an object for a postcard class with a sender and a message.
        Has methods to change recipients.
        @param aSender the sender
        @param aMessage the message
        */
        public Postcard(String aSender, String aMessage)
        {

                this.message = aMessage;
                this.sender = aSender;
                this.recipient = "";
        }
```

```java
        public void changeRecipient(String newRecipient)
        {
                this.recipient = newRecipient;
        }
}
```

Exercise 3.3

```java
/* Saket Bakshi, Period 6
Question 3.3 of Ch 3 project. This program declares a Postcard class for sending
postcards with the same message to different recipients.
*/

public class Postcard
{
        //instance variables
        private String message;
        private String sender;
        private String recipient;

        /**Makes an object for a postcard class with a sender and a message.
        Has methods to change recipients.
        @param aSender the sender
        @param aMessage the message
        */
        public Postcard(String aSender, String aMessage)
        {

                this.message = aMessage;
                this.sender = aSender;
                this.recipient = "";
        }

        public void changeRecipient(String newRecipient)
        {
                this.recipient = newRecipient;
        }

        public void print()
        {
                System.out.println("Hello, " + this.recipient);
                System.out.println(this.message);
                System.out.println("From,"\n+this.sender);
        }
```

}

Exercise 3.4
Question 3.4 of Ch 3 project. This program declares a Postcard class for sending postcards with the same message to different recipients.
*/

```java
public class Postcard
{
        //instance variables
        private String message;
        private String sender;
        private String recipient;

        /**Makes an object for a postcard class with a sender and a message.
        Has methods to change recipients.
        @param aSender the sender
        @param aMessage the message
        */
        public Postcard(String aSender, String aMessage)
        {

                this.message = aMessage;
                this.sender = aSender;
                this.recipient = "";
        }

        public void setRecipient(String newRecipient)
        {
                this.recipient = newRecipient;
        }

        public void print()
        {
                System.out.println("Hello, " + this.recipient);
                System.out.println(this.message);
                System.out.println("From,\n" +this.sender);
        }
}
```
Question 3.4 of Ch 3 project. This program tests the Postcard class.
*/

```java
public class PostcardPrinter
{
        public static void main(String[] args)
        {
                String text = "I am having a great time on\nthe island of Java. Weather\nis great.
Wish you were here!";
                Postcard postcard = new Postcard("Janice", text);
                postcard.setRecipient("Sue");
                postcard.print();
                postcard.setRecipient("Tim");
                postcard.print();
        }
}
```

```
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi> javac *.java
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi> java PostcardPrinter
Hello, Sue
I am having a great time on
the island of Java. Weather
is great. Wish you were here!
From,
Janice
Hello, Tim
I am having a great time on
the island of Java. Weather
is great. Wish you were here!
From,
Janice
PS C:\Users\saket\JAVA\Projects\project3\Ch3ProjectQ3SBakshi>
```