[Encryption class]

```
class Encryption {
    private String message;
    private int key;

    String getMessage() {
        return message;
    }

    void setMessage(String message) {
        this.message = message;
    }

    int getKey() {
        return key;
    }

    void setKey(int key) {
        this.key = key;
    }

    //Encryption method which encrypt a message with the
given key
    String encryption() {

        //Convert the given message to an array of chars
        char[] chars = this.message.toCharArray();

        for (int i = 0; i < chars.length; i++) {
```

```java
            if (chars[i] == ' ') continue;
            chars[i] = (char) (((int) chars[i]) + key);

        }
        this.message = new String(chars);
        return message;
    }//End of method

}//End of class
```

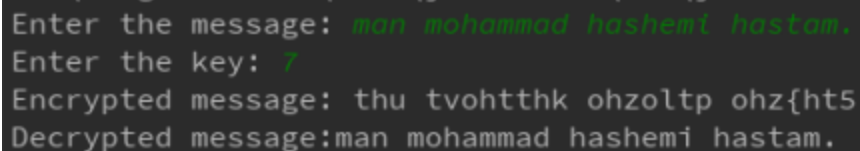## [Decryption class]

```java
class Decryption {
    //Decryption method which decrypt the return
    // message from the encryption method
    //of Encryption.class
    String decryption(Encryption encryption) {
        char[] chars =
encryption.getMessage().toCharArray();
        for (int i = 0; i <
encryption.getMessage().length(); i++) {
            //Skip spaces
            if (chars[i] == ' ') continue;
            chars[i] = (char) (((int) chars[i]) -
encryption.getKey());
        }

        encryption.setMessage(new String(chars));
        return encryption.getMessage();
    }//End of Decryption
}//End of class
```

[Menu class]

```java
public class Menu {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Encryption encryption = new Encryption();
        Decryption decryption = new Decryption();

        System.out.print("Enter the message: ");
        encryption.setMessage(scanner.nextLine());

        System.out.print("Enter the key: ");
        encryption.setKey(scanner.nextInt());

        System.out.println("Encrypted message: " +
encryption.encryption());

        System.out.println("Decrypted message:" +
decryption.decryption(encryption));


    }//End of main method

}//End of class
```

```
Enter the message: man mohammad hashemi hastam.
Enter the key: 7
Encrypted message: thu tvohtthk ohzoltp ohz{ht5
Decrypted message:man mohammad hashemi hastam.
```

```
        src/Menu.java
Please, commit your changes or stash them before you can switch branches.
Aborting
→ Encrypt git:(develop) X git log
→ Encrypt git:(develop) X git checkout master
error: Your local changes to the following files would be overwritten by checkout:
        .idea/workspace.xml
        src/Decryption.java
        src/Encryption.java
        src/Menu.java
Please, commit your changes or stash them before you can switch branches.
Aborting
→ Encrypt git:(develop) X git add -A
→ Encrypt git:(develop) X git commit
Aborting commit due to empty commit message.
→ Encrypt git:(develop) X git log
→ Encrypt git:(develop) X git log
→ Encrypt git:(develop) X git add -A
→ Encrypt git:(develop) X git commit
[develop e284d60] finalizing and add comments
 9 files changed, 84 insertions(+), 65 deletions(-)
 create mode 100644 Doc/Sketch.png
 create mode 100644 Doc/git logs on branch develop before merging.png
→ Encrypt git:(develop) git checkout master
Switched to branch 'master'
Your branch is up-to-date with 'origin/master'.
→ Encrypt git:(master) git status
On branch master
Your branch is up-to-date with 'origin/master'.
nothing to commit, working directory clean
→ Encrypt git:(master) git log
→ Encrypt git:(master) git merge develop
Updating 2865326..e284d60
Fast-forward
 .idea/workspace.xml                                    | 195 +++++++++++++++++++++++++++++++++++++++++++++++++++-
 Doc/Sketch.png                                         | Bin 0 -> 11894 bytes
 Doc/git logs on branch develop before merging.png      | Bin 0 -> 161659 bytes
 out/production/Encrypt/Decryption.class                | Bin 0 -> 792 bytes
 out/production/Encrypt/Encryption.class                | Bin 0 -> 1012 bytes
 out/production/Encrypt/META-INF/Encrypt.kotlin_module  | Bin 0 -> 16 bytes
 out/production/Encrypt/Menu.class                      | Bin 0 -> 1611 bytes
 src/Decryption.java                                    |  24 +++++++
 src/Encryption.java                                    |  44 +++++++++++++
 src/Menu.java                                          |  31 +++++++++
 10 files changed, 293 insertions(+), 1 deletion(-)
 create mode 100644 Doc/Sketch.png
 create mode 100644 Doc/git logs on branch develop before merging.png
 create mode 100644 out/production/Encrypt/Decryption.class
 create mode 100644 out/production/Encrypt/Encryption.class
 create mode 100644 out/production/Encrypt/META-INF/Encrypt.kotlin_module
 create mode 100644 out/production/Encrypt/Menu.class
 create mode 100644 src/Decryption.java
 create mode 100644 src/Encryption.java
 create mode 100644 src/Menu.java
→ Encrypt git:(master)
```

```
commit 0c064c081a55743e516c3772bd8792e9a435b81a
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Tue Mar 12 13:34:01 2019 +0330

    Completed

    the code run perfectly and now it doesn't count the spaces
    and decrypt the message strait from encryption class.

commit 7a73edacedec0d14431b722625f1b1c3bbc0baed
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Tue Mar 12 12:24:06 2019 +0330

    Fixing the bug of encryption method

    Now the encryption method returns the corect ecrypted message but still count the spaces.

commit 059005fad9c681e2c78a20522aa668022cada5fa
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Tue Mar 12 10:29:01 2019 +0330

    implement the menu class and run for the first time

    there is a problem with producing the message in Encryption class

commit 8850a9cc9cb42b032904a2c3ee8e001933729c58
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Tue Mar 12 10:04:53 2019 +0330

    Added decryption method

commit 9c4f96afc22d632c511ef754fc88cc6c87112571
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Mon Mar 11 21:32:52 2019 +0330

    Add Menu,Ecryption and Decryption calsses and define encryption method for Encryption class

commit 286532651dc5fb120153a4407539cad82a125ab8
Author: mohammad <mohammad.hashemi747@gmail.com>
Date:    Mon Mar 11 20:23:48 2019 +0330

    Just create the project
(END)
```