Problem Set 2

Problem 1

Generate all the prime numbers between a certain range of numbers

A prime number is a number that is not divisible by any number other than 1 and itself

1 is not a prime number. So prime number starts from 2

Input: 1 10

Output: The prime numbers are 2 3 5 7

Problem 2

Check whether a given number is a palindromic or not

Input: 121

Output: Yes the number is palindromic

Input: 122

Output: No the number is not palindromic

Problem 3

Roman soldiers are trying to send a secret message to a general who is in the base camp of a war. Now they need to cipher or hide the secret message somehow, else if the message gets to the hands of the enemies, they will know about the secret tactics. So They send the message by this system:

Input: HELPUZ

Output: JgNrWb

Note: Handle carefully for **Z** and **Y** . The input will be always in capital letter.

Use the following code to traverse through a string:

```java
String s = "HELPUZ";

        for (int i = 0; i < s.length(); i++) {
            System.out.print(s.charAt(i));
        }
```