

## ASSIGNMENT III

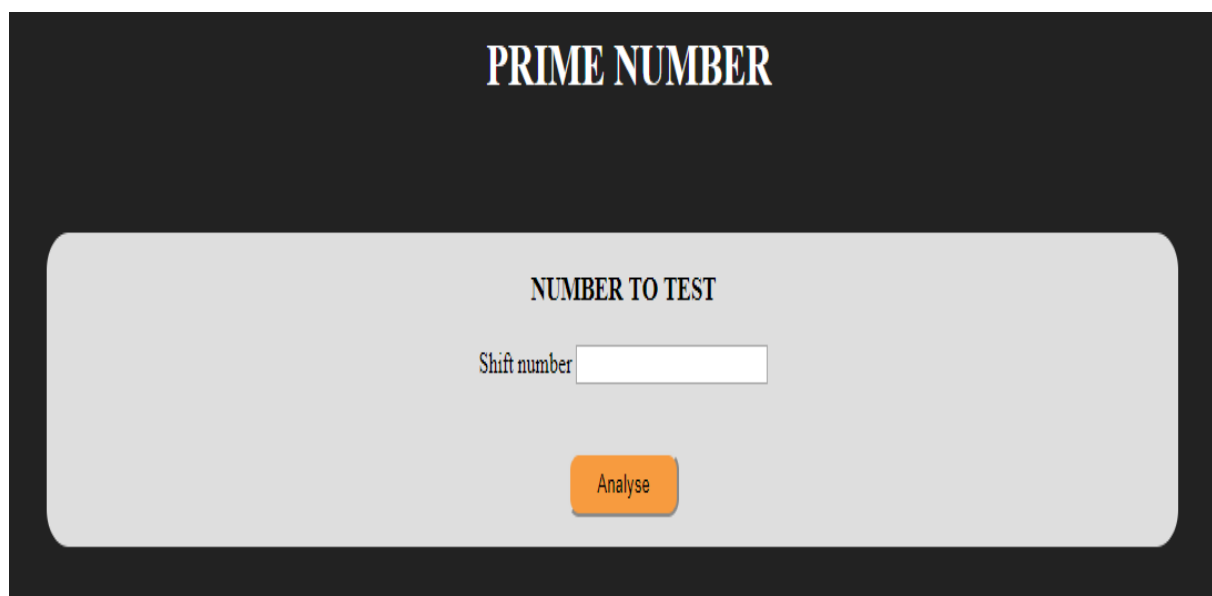
In the assignment IV it was asked to us to write a program that get input from user than show how many iteration need to find out if number is prime or not. If number is not prime you should give factorials of given number.

Method I: Should use regular calculation method. It should divide every positive number available between 1 and less than given value itself (  $1 < \text{divider} < n$  )

Method II: Should use algorithm that was mentioned in class.

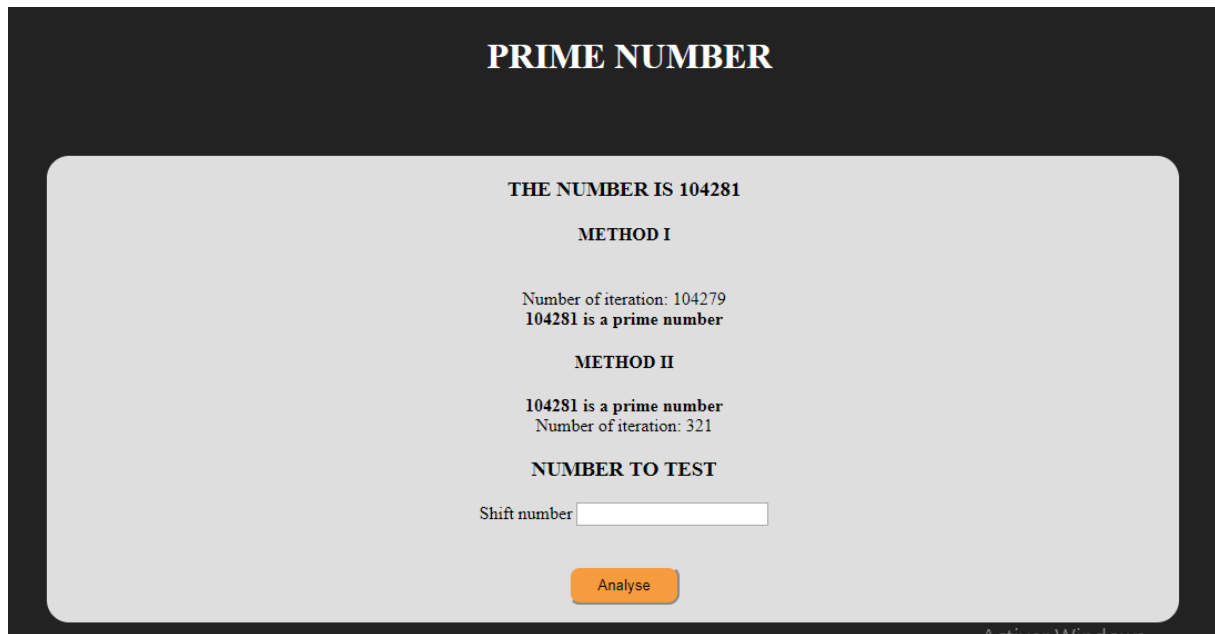
To realise this application I have used PHP and to realise the graphic interfaces I have combine PHP with html. The application can be used in any web browser if it is combining with a web local server. In my case I have used WAMPSEVER. The applications that I have developed have three interfaces:

- The first one is getting the number from the user.



The screenshot shows a web application interface with a dark background. At the top, the title "PRIME NUMBER" is displayed in a stylized, outlined font. Below the title, there is a light gray rounded rectangular box. Inside this box, the text "NUMBER TO TEST" is centered. Below this text, the label "Shift number" is followed by a white text input field. At the bottom of the gray box, there is an orange button with the text "Analyse" in white.

- The second interface is showing the result using the two method and it is giving the possibility to do another operation.



**PRIME NUMBER**

**THE NUMBER IS 104281**

**METHOD I**

Number of iteration: 104279  
104281 is a prime number

**METHOD II**

104281 is a prime number  
Number of iteration: 321

**NUMBER TO TEST**

Shift number

Analyse

You will find join with this document the different two pages codes of this application.

- Index.php : it is taking the number provides by the user and send it to primenumber.php.
- Primenumber.php : it is getting the number from index.php, verifying if the number is greater than 0 and using the two method it is showing if the number is prime or not and it showing how many iteration it takes to do this operation.