Lab 4

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First, use ggplot to draw the graph.

Then write the function that will check if a given positive integer is a prime number.

prime <- function(inputnum) {  
 for(i in 2:sqrt(inputnum))   
 if (inputnum %% i == 0 && inputnum > i)   
 print("not prime number")  
 else  
 print("is prime number")  
 }

Then, we can check the function.

prime(11)

## [1] "is prime number"  
## [1] "is prime number"

prime(12)

## [1] "not prime number"  
## [1] "not prime number"