Code:

```
prime_number<- function(x){

  if(x==2){

  print("PRIME")

 } else {


  if((x%%2==0) ||(x%%3==0) || (x%%4==0)||(x%%5==0)||(x%%6==0)||
(x%%7==0)||(x%%8==0)||(x%%9==0)){

    print("The number is not a prime number!")


  } else {

    print("The number is Prime")


  }}}



prime_number(102);

prime_number(82);

prime_number(179);
```

Output:

```
> prime_number<- function(x){
+      if(x==2){
+      print("PRIME")
+    } else {
+
+      if((x%%2==0)  ||(x%%3==0)  ||  (x%%4==0)||(x%%5==0)||(x%%6==0)|| (x%%7==0)
||(x%%8==0)||(x%%9==0)){
+        print("The number is not a prime number!")
+
+      } else {
+        print("The number is Prime")
+
+      }}}
>
>
> prime_number(102);
```

```
[1] "The number is not a prime number!"
> prime_number(82);
[1] "The number is not a prime number!"
> prime_number(179);
[1] "The number is Prime"
```