

### 1. Swapping of two numbers without using third variable

```
> {  
+  
+ x <- as.integer(readline(prompt = "Enter x value :"))  
+ y <- as.integer(readline(prompt = "Enter y value :"))  
+  
+ x = x + y  
+ y = x - y  
+ x = x - y  
+  
+ print(paste("After swap x is :", x))  
+ print(paste("After swap y is :", y))  
+  
+ }
```

#### Output

```
> {  
+  
+ x <- as.integer(readline(prompt = "Enter x value :"))  
+ y <- as.integer(readline(prompt = "Enter y value :"))  
+  
+ x = x + y  
+ y = x - y  
+ x = x - y  
+  
+ print(paste("After swap x is :", x))  
+ print(paste("After swap y is :", y))  
+  
+ }  
Enter x value :10  
Enter y value :20  
[1] "After swap x is : 20"  
[1] "After swap y is : 10"  
> |
```

### 2. Print 1 to 10 using while loop

```
>i <- 1  
> while (i < 11) {  
+ print(i)  
+ i = i+1  
+ }
```

#### Output

```
> i <- 1  
> while (i < 11) {  
+ print(i)  
+ i <- i + 1  
+ }  
[1] 1  
[1] 2  
[1] 3  
[1] 4  
[1] 5  
[1] 6  
[1] 7  
[1] 8  
[1] 9  
[1] 10  
> |
```

### 3. Web Application

```
>install.packages("shiny")
>library(shiny)
>ui <- fluidPage(
  titlePanel(title = "First app....."),
  sidebarLayout( position = "right",
    sidebarPanel ("Sidebar panel, ....."),
    mainPanel("Main panel, .....")
  ))
>server <-function (input, output) {}
>shinyApp (ui =ui , server = server)
```

## Output

