Week 4 Lab 2B – AHMAD ZULHARITH BIN ZULKIFLI 20001347
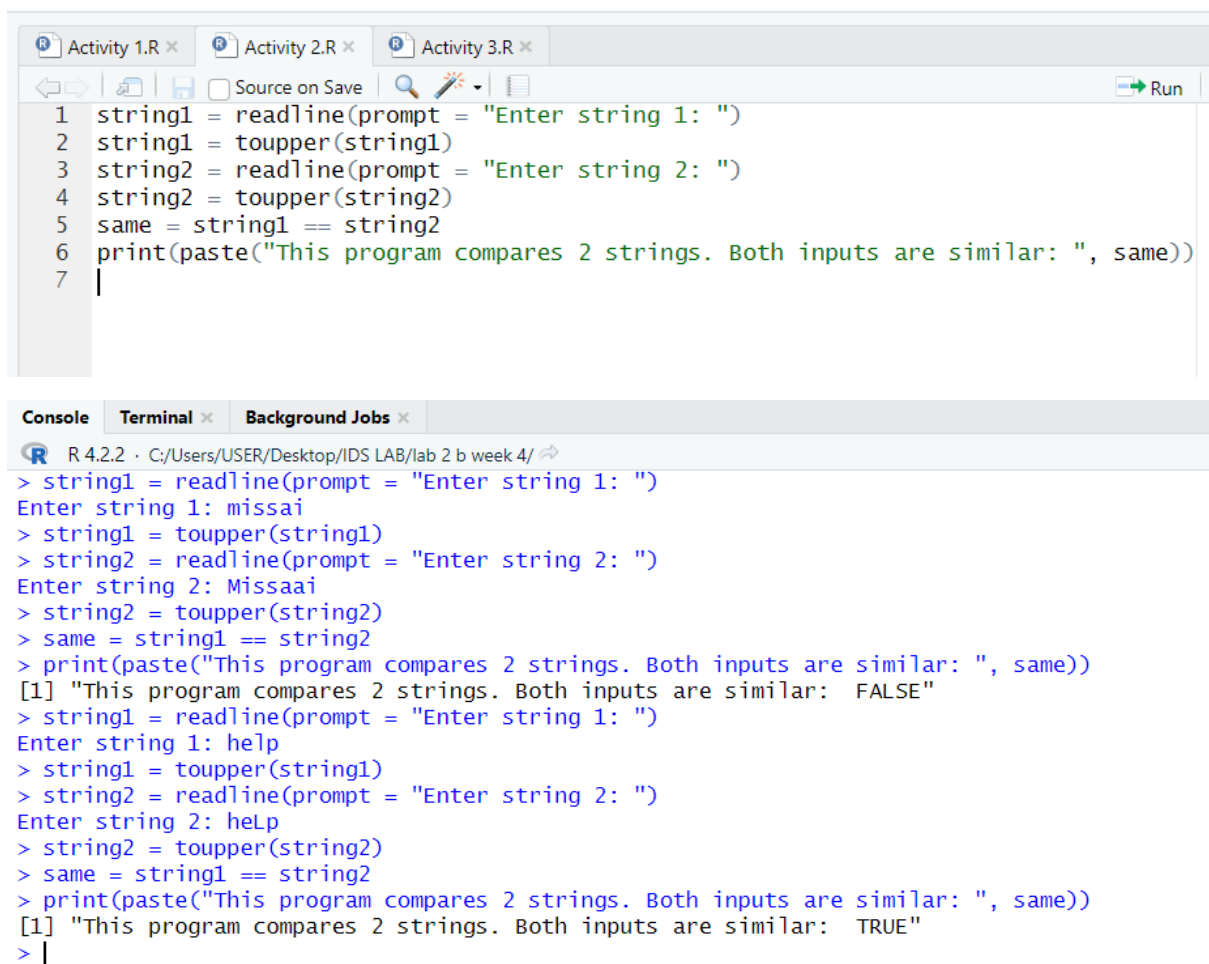
Activity 1

R lab 2 b week 4 - RStudio

File   Edit   Code   View   Plots   Session   Build   Debug   Profile   Tools   Help

Go to file/function   Addins ▾

Activity 1.R ×   Activity 2.R ×   Activity 3.R ×

Source on Save

```r
1   Weight = readline(prompt = "Enter the Weight: ")
2   Weight = as.numeric(Weight)
3
4   Height = readline(prompt = "Enter the Height in m: ")
5   Height = as.numeric(Height)
6
7   BMI = Weight/(Height*Height)
8
9   a = 18.4
10  b = 24.9
11  c = 39.9
12  d = 40.0
13
14  Underweight = (BMI<=a)
15  Normal = (BMI <=b && BMI > a)
16  Overweight = (BMI <=c && BMI > b)
17  Obese = (BMI >= d)
18
19  print(paste("Underweight: ",Underweight))
20  print(paste("Normal: ", Normal))
21  print(paste("Overweight: ", Overweight))
22  print(paste("Obese: ", Obese))
23
```

Console   **Terminal** ×   **Background Jobs** ×

R R 4.2.2 · C:/Users/USER/Desktop/IDS LAB/lab 2 b week 4/

```r
> Weight = readline(prompt = "Enter the Weight: ")
Enter the Weight: 100
> Weight = as.numeric(Weight)
> Height = readline(prompt = "Enter the Height in m: ")
Enter the Height in m: 1.59
> Height = as.numeric(Height)
> BMI = Weight/(Height*Height)
> a = 18.4
> b = 24.9
> c = 39.9
> d = 40.0
> Underweight = (BMI<=a)
> Normal = (BMI <=b && BMI > a)
> Overweight = (BMI <=c && BMI > b)
> Obese = (BMI >= d)
> print(paste("Underweight: ",Underweight))
[1] "Underweight:  FALSE"
> print(paste("Normal: ", Normal))
[1] "Normal:  FALSE"
> print(paste("Overweight: ", Overweight))
[1] "Overweight:  TRUE"
> print(paste("Obese: ", Obese))
[1] "Obese:  FALSE"
> 
```
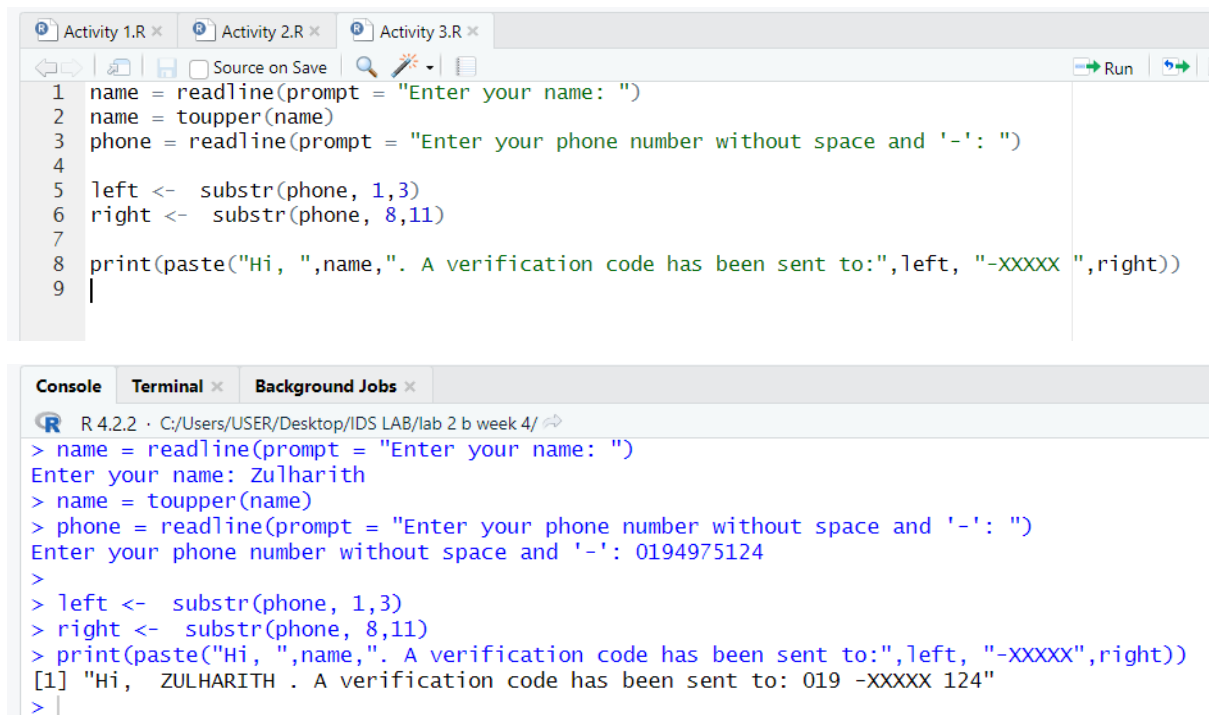
Activity 2

```r
1   string1 = readline(prompt = "Enter string 1: ")
2   string1 = toupper(string1)
3   string2 = readline(prompt = "Enter string 2: ")
4   string2 = toupper(string2)
5   same = string1 == string2
6   print(paste("This program compares 2 strings. Both inputs are similar: ", same))
7   |
```

Console **Terminal** × **Background Jobs** ×

R 4.2.2 · C:/Users/USER/Desktop/IDS LAB/lab 2 b week 4/

```
> string1 = readline(prompt = "Enter string 1: ")
Enter string 1: missai
> string1 = toupper(string1)
> string2 = readline(prompt = "Enter string 2: ")
Enter string 2: Missaai
> string2 = toupper(string2)
> same = string1 == string2
> print(paste("This program compares 2 strings. Both inputs are similar: ", same))
[1] "This program compares 2 strings. Both inputs are similar:  FALSE"
> string1 = readline(prompt = "Enter string 1: ")
Enter string 1: help
> string1 = toupper(string1)
> string2 = readline(prompt = "Enter string 2: ")
Enter string 2: heLp
> string2 = toupper(string2)
> same = string1 == string2
> print(paste("This program compares 2 strings. Both inputs are similar: ", same))
[1] "This program compares 2 strings. Both inputs are similar:  TRUE"
> |
```

Activity 3

```r
1  name = readline(prompt = "Enter your name: ")
2  name = toupper(name)
3  phone = readline(prompt = "Enter your phone number without space and '-': ")
4
5  left <-  substr(phone, 1,3)
6  right <-  substr(phone, 8,11)
7
8  print(paste("Hi, ",name,". A verification code has been sent to:",left, "-XXXXX ",right))
9  |
```

Console **Terminal** × **Background Jobs** ×

R 4.2.2 · C:/Users/USER/Desktop/IDS LAB/lab 2 b week 4/

```
> name = readline(prompt = "Enter your name: ")
Enter your name: Zulharith
> name = toupper(name)
> phone = readline(prompt = "Enter your phone number without space and '-': ")
Enter your phone number without space and '-': 0194975124
>
> left <-  substr(phone, 1,3)
> right <-  substr(phone, 8,11)
> print(paste("Hi, ",name,". A verification code has been sent to:",left, "-XXXXX",right))
[1] "Hi,  ZULHARITH . A verification code has been sent to: 019 -XXXXX 124"
> |
```