



UNIVERSITI
TEKNOLOGI
PETRONAS

LAB WEEK 4

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'AFFAN NAJIY BIN RUSDI

22010453

BACHELOR OF COMPUTER SCIENCE

DATA SCIENCE

TEB2164

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Code

Activity 1

```
#Activity 1
weight <- as.numeric(readline("Enter weight (kg): "))
height <- as.numeric(readline("Enter height (m): "))

bmi <- weight / (height * height)

print(bmi)

underweight <- bmi <= 18.4
normal <- 18.5 >= bmi & bmi <= 24.9
overweight <- 25.0 >= bmi & bmi <= 39.9
obese <- bmi >= 40.0

cat("Underweight: ", underweight, "\n")
cat("Normal: ", normal, "\n")
cat("Overweight: ", overweight, "\n")
cat("Obese: ", obese, "\n")
```

Activity 2

```
str_1 <- readline("Enter string 1: ")
str_2 <- readline("Enter string 2: ")

similarity <- tolower(str_1) == tolower(str_2)

cat("This program compare 2 strings. Both input similarity: ", similarity)
```

Activity 3

```
name <- toupper(readline("Enter your name: "))
phone <- gsub("[^0-9]", "", readline("Enter phone number: "))

if(nchar(phone) >= 7){
  first_3 <- substr(phone, 1, 3)
  last_4 <- substr(phone, nchar(phone) - 3, nchar(phone))

  cat("Hi,", name, ". A verification code has been sent to", first_3, "-xxx",
last_4, "\n")
} else {
  cat("Invalid phone number format\n")
}
```

