

RWorksheet_Almayo#4a(2)

2024-10-28

R Markdown

#6

```
Num <- readline(prompt="Select a number between 1 to 50:")
```

Select a number between 1 to 50:

```
if(Num<=1 || Num>=50){  
  print("The number selected is beyond the range of 1 to 50")  
}else if(Num==20){  
  print("TRUE")  
}else{  
  print(Num)  
}
```

[1] "The number selected is beyond the range of 1 to 50"

#7

```
Input <- 150  
if(Input<=50){  
  cat("Bill must be 50 pesos")  
}else if (Input <=100 && Input >= 50){  
  cat("Bill must be 100 pesos")  
}else if (Input <= 200 && Input >=100){  
  cat("Bill must be 200 pesos")  
}else if (Input <= 500 && Input >= 200){  
  cat("Bill must be 500 pesos")  
}else if (Input <= 1000 && Input >= 500){  
  cat("Bill must be 1000 pesos")  
}
```

Bill must be 200 pesos

#8

```
students <- data.frame(  
  Name = c("Annie", "Thea", "Steve", "Hanna"),  
  Grade1 = c(85, 65, 75, 95),  
  Grade2 = c(65, 75, 55, 75),  
  Grade3 = c(85, 90, 80, 100),  
  Grade4 = c(100, 90, 85, 90))
```

#B

```
Annie <- "Annie"  
Thea <- "Thea"  
Steve <- "Steve"
```

```

Hannah <- "Hannah"
choice <- readline(prompt="Select Student: ")

## Select Student:
if(choice == Annie){
  x <- (85+65+85+100)/4
  paste("Annie's average grade this semester is" ,x)
}else if(choice == Thea){
  y <- (65+75+90+75)/4
  paste("Thea's average grade this semester is" ,y)
}else if(choice == Steve){
  a <- (85+55+80+85)/4
  paste("Steve's average grade this semester is" ,a)
}else if (choice == Hannah){
  b <- (100+75+100+90)/4
  paste("Hannah's average grade this semester is" ,b)
}else{
  print("Select Again")
}

```

```
## [1] "Select Again"
```

```
#C
```

```

avg_res<- rowSums(students[, 2:5]) / 4
for (i in 1:nrow(students)) {
  if (avg_res[i] < 80) {
    cat("The", i, "test was difficult.\n")
  }
}

```

```
## The 3 test was difficult.
```

```
#D
```

```

for (i in 1:nrow(students)) {
  highest_score <- max(students[i, 2:5])
  if (highest_score > 90) {
    cat(students$Name[i], "'s highest grade this semester is", highest_score, "\n")
  }
}

```

```
## Annie 's highest grade this semester is 100
```

```
## Hanna 's highest grade this semester is 100
```