Inclass Assignment

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# if statement and function

Q1. Update the author name and date in YAML part above.

Q2. Lines of code to describe the basic syntax of if statement (use ‘condition’ and ‘expression’)

if (condition){  
 expression  
}

## Error in eval(expr, envir, enclos): object 'condition' not found

Q3. Bill’s current height is 6.2. Create an if statement to print “Bill is taller than 5.8” if Bill’s height is greater than 5.8.

Bill <- 6.2  
  
if (Bill > 5.8){  
 print ("Bill is taller than 5.8")  
}

## [1] "Bill is taller than 5.8"

Q4. The current number of student is 5. Create an if statement to print “number of student is not even” if the current number of student (nstudent) is an odd number, using %% operator to set a remainder of nstudent divided by 2 is NOT equal to zero.

nstudent <- 5  
  
if (nstudent %% 2!=0 ) {  
 print ("number of student is not even")  
}

## [1] "number of student is not even"

Q5. Lines of code to describe the basic syntax of else statement (use ‘condition’ and ‘expression’)

if (condition1) {  
 expression1  
 } else {  
 expression2  
}

## Error in eval(expr, envir, enclos): object 'condition1' not found

Q6. Using an else statement, Jane wants to print out “Profit is excellent!” if profit is greater than 100, while “Profit is not good” if profit is equal or less than 100. Please help her with writing a proper else statement.

if (profit > 100) {  
 print ("Profit is excellent!")  
 } else {  
 print ("Profit is not good")  
}

## Error in eval(expr, envir, enclos): object 'profit' not found

Q7. Lines of code to describe the basic syntax of else if statement (use condition, expression, etc. as parameter names)

if (condition1) {  
 expression1  
} else if (condition2) {  
 expression2  
} else {  
 expression3  
}

## Error in eval(expr, envir, enclos): object 'condition1' not found

Q8. Using an else if statement, James wants to print out “Profit is excellent!” if profit is equal to 100. At the same time, he wants to print out “Profit is good” if profit is equal to 50. Otherwise he wants to print out “Profit is not what I expected”. Please help him with writing a proper else if statement.

if (profit == 100) {  
 print ("Profit is excellent!")  
} else if (profit == 50) {  
 print ("Profit is good")  
} else {  
 print ("Profit is not what I expected")  
}

## Error in eval(expr, envir, enclos): object 'profit' not found

Q9. Create a function with a single parameter h that includes an if statement where a print function (“The input is 10”) works if h is equal to 10. And then assign the function to findten.

findtwo <- function (h) {  
 if (h == 10)   
 print ("The input is 10")  
 }

Q10. Create a function with a single parameter department that includes two print functions. The first print function shows mean of department and the second print function outputs maximum value of department. And the assign the function to printboth.

printboth <- function(department) {  
 print (mean(department))   
 print (max(department))  
   
}