Financial Analysis

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06/06/2021

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#Data----
revenue <- c(14574.49, 7606.46, 8611.41, 9175.41, 8058.65, 8105.44, 11496.28, 9766.09, 10305.32, 14379.
expenses <- c(12051.82, 5695.07, 12319.20, 12089.72, 8658.57, 840.20, 3285.73, 5821.12, 6976.93, 16618.
# Question----
# Find the:
# 1) Profit for each month
# 2) Profit after tax for each month (30% tax rate)
# 3) Profit margin for each month - equals to profit after tax divided by revenue
# 4) Good months - where the profit after tax was greater than the mean for the year
# 5) Bad months - where the profit after tax was less than the mean for the year
# 6) The best month - where the profit after tax was max for the year
# 7) The worst month - where the profit after tax was min for the year
# Stipulations:
#1) All results need to be presented as vectors
#2) Results for dollar values need to be calculated with $0.01 precision, but need to be
  presented in units of $1000 with no decimal points.
#3) Results for the profit margin ratio need to be presented in units of % with no decimal
  points.
# Profit for each month----
profit <- revenue - expenses</pre>
print(as.integer(profit))
   [1] 2522 1911 -3707 -2914 -599 7265 8210 3944 3328 -2238
                                                                      659 11629
# Profit after tax for each month (30% tax rate)----
taxedprofit <- profit * 0.7</pre>
print(as.integer(taxedprofit))
        1765 1337 -2595 -2040 -419 5085 5747 2761 2329 -1567
                                                                      461 8140
# Profit margin for each month - equals to profit after tax divided by revenue----
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profitmargin <- (taxedprofit/revenue)*100</pre>
print(as.integer(profitmargin))
## [1] 12 17 -30 -22 -5 62 49 28 22 -10
# Good months - where the profit after tax was greater than the mean for the year----
taxedprofitmean <- mean(taxedprofit)</pre>
monthcounter <- 1
for(i in taxedprofit){if(i>taxedprofitmean){print(monthcounter)}
  }
monthcounter <- monthcounter+1}</pre>
## [1] 1
## [1] 6
## [1] 7
## [1] 8
## [1] 9
## [1] 12
# Bad months - where the profit after tax was less than the mean for the year----
monthcounter <- 1
for(i in taxedprofit){if(i<taxedprofitmean){print(monthcounter)}</pre>
}
 monthcounter <- monthcounter+1}</pre>
## [1] 2
## [1] 3
## [1] 4
## [1] 5
## [1] 10
## [1] 11
# The best month - where the profit after tax was max for the year----
print(which.max(taxedprofit))
## [1] 12
# The worst month - where the profit after tax was min for the year----
print(which.min(taxedprofit))
## [1] 3
```