A-2.R

acer

2020-05-08

#Output1  
x=c(1:5)  
y=c(3,6)  
x\*y

## Warning in x \* y: longer object length is not a multiple of shorter object  
## length

## [1] 3 12 9 24 15

#Output2  
sample(1:50,4)

## [1] 30 29 21 5

#Output3  
income<-c(24674.49,6606.46,8621.41,9175.41,8058.65,8105.44,11496.28,9766.09,10305.32,14379.96,10713.97,15433.50)  
expenses<-c(32161.82,4695.07,12319.20,12089.72,7658.57,1840.20,3285.73,5821.12,6976.93,16618.61,10054.37,3803.96)  
  
#Profit for each month  
Profit=income-expenses  
Profit

## [1] -7487.33 1911.39 -3697.79 -2914.31 400.08 6265.24 8210.55 3944.97  
## [9] 3328.39 -2238.65 659.60 11629.54

cat("Profit for each month:",Profit)

## Profit for each month: -7487.33 1911.39 -3697.79 -2914.31 400.08 6265.24 8210.55 3944.97 3328.39 -2238.65 659.6 11629.54

#Profit after tax for each month  
tax=(Profit\*30)/100  
Profit\_after\_tax=Profit-tax  
cat("Profit after tax for each month:",Profit\_after\_tax)

## Profit after tax for each month: -5241.131 1337.973 -2588.453 -2040.017 280.056 4385.668 5747.385 2761.479 2329.873 -1567.055 461.72 8140.678

#Profit margin for each month  
Profit\_margin=Profit\_after\_tax/income  
cat("Profit margin for each month:",Profit\_margin)

## Profit margin for each month: -0.2124109 0.202525 -0.3002355 -0.2223352 0.03475222 0.5410771 0.4999343 0.282762 0.2260845 -0.1089749 0.04309514 0.527468

#Average profit margin  
Avg\_profit\_margin=mean(Profit\_margin)  
cat("Average profit margin:",Avg\_profit\_margin)

## Average profit margin: 0.1261451

#Average of profit after tax  
Avg\_profit\_tax=mean(Profit\_after\_tax)  
cat("Average of profit after tax:",Avg\_profit\_tax)

## Average of profit after tax: 1167.348

#Names of Good Months & Names of Bad Months  
Good\_Months=Profit\_after\_tax>Avg\_profit\_tax  
cat("Names of Good Months:",Good\_Months)

## Names of Good Months: FALSE TRUE FALSE FALSE FALSE TRUE TRUE TRUE TRUE FALSE FALSE TRUE

Bad\_Months=Profit\_after\_tax<Avg\_profit\_tax  
cat("Names of Bad Months:",Bad\_Months)

## Names of Bad Months: TRUE FALSE TRUE TRUE TRUE FALSE FALSE FALSE FALSE TRUE TRUE FALSE

#Names of Best Month & Names of Worst Month  
Best\_month=max(Profit\_after\_tax)  
cat("Names of Best Month:",Best\_month)

## Names of Best Month: 8140.678

Worst\_month=min(Profit\_after\_tax)  
cat("Names of Worst Month:",Worst\_month)

## Names of Worst Month: -5241.131