

Instituto Tecnológico de Tijuana

Nombre de Facultad



Proyecto / Tarea / Practica:

Practica 3

Materia:

Minería de datos

Facilitador:

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Alumnos:

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Aguilar López José Miguel

Fecha:

Tijuana Baja California a 20 de 09 2021

Código y resultados

```
1 revenue <- c(14390.48, 17600.10, 8011.41, 9274.41, 8258.65, 8193.44, 11246.48, 9766.09, 10301.32, 14374.50, 10711.57, 13811.50)
2 expenses <- c(12051.82, 5695.07, 12319.20, 12089.72, 8658.57, 840.20, 1265.73, 5821.12, 8978.93, 16618.61, 10054.37, 3801.96)
3
4 revenue
5
6 #solution
7
8 #profit per month
9 profit <- revenue - expenses
10 profit
11
12 #30% tax value
13 tax_30_per <- round(profit * 0.30, 0)
14 tax_30_per
15
16 #profit after tax
17 profit_after_tax <- profit - tax_30_per
18 profit_after_tax
19
20 #profit margin in %
21 profit_margin <- round(profit_after_tax/revenue, 2)*100
22 profit_margin <- paste(profit_margin, "%")
23 profit_margin
24
25 #best month
26 best_month <- max(profit_after_tax)
27
28 #worst month
29 worst_month <- min(profit_after_tax)
30
31 worst_month
32
33 best_month
34
35 mean_for_year <- mean(profit_after_tax)
36 mean_for_year
37
38 #sorting vector in ascending order
39 profit_sort_asc <- sort(profit_after_tax, decreasing = F)
40
41 #for(i in profit_sort_asc){
42 #  if(i==mean_for_year){
43 #    good_month = i
44 #    break
45 #  }else{
46 #    bad_month = i
47 #  }
48 #}
```

Environment

Variable	Value
bad_month	1338.39
best_month	8140.54
expenses	num [1:12] 12052 5695 12319 12090 8659...
good_month	1765.67
mean_for_year	1750.64
profit	num [1:12] 2523 1911 -3708 -2914 -600 ...
profit_after...	num [1:12] 1766 1338 -2596 -2040 -420 ...
profit_sort_a...	num [1:12] -2596 -2040 -1567 -420 462 ...
profit_margin	chr [1:12] "12 %", "18 %", "-30 %", "-22 ...
revenue	num [1:12] 14374 7606 8611 9175 8059 ...
tax_30_per	num [1:12] 737 573 -1112 -874 -180 ...
worst_month	-2595.79

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