

Activities

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```
d <- read.csv("D:/College/Semester 4/R/diabetes.csv")  
  
d  
head(d,n=10)  
tail(d,n=10)
```

Output

	Pregnancies	Glucose	BloodPressure	SkinThickness	Insulin	BMI
1	6	148	72	35	0	33.6
2	1	85	66	29	0	26.6
3	8	183	64	0	0	23.3
4	1	89	66	23	94	28.1
5	0	137	40	35	168	43.1
6	5	116	74	0	0	25.6
7	3	78	50	32	88	31.0
8	10	115	0	0	0	35.3
9	2	197	70	45	543	30.5
10	8	125	96	0	0	0.0

	DiabetesPedigreeFunction	Age	Outcome
1	0.627	50	1
2	0.351	31	0
3	0.672	32	1
4	0.167	21	0
5	2.288	33	1
6	0.201	30	0
7	0.248	26	1
8	0.134	29	0
9	0.158	53	1
10	0.232	54	1

Activities

Finding the Mean

```
0
1 i=1
2
3 count <- nrow(d)
4
5 while(i<=ncol(d)){
6   c <- d[i]
7   sum_ <- sum(c)
8   mean_ <- sum_ /count
9
10  print(paste("Mean of ",colnames(c)," : ",mean_))
11
12  i=i+1
13 }
14
15
16
17
18 (Top Level)
sole Terminal x Background Jobs x
R 4.3.2 . ~/
mean_ <- sum_ /count

print(paste("Mean of ",colnames(c)," : ",mean_))

i=i+1

"Mean of Pregnancies : 3.84505208333333"
"Mean of Glucose : 120.89453125"
"Mean of BloodPressure : 69.10546875"
"Mean of skinThickness : 20.5364583333333"
"Mean of Insulin : 79.7994791666667"
"Mean of BMI : 31.992578125"
"Mean of DiabetesPedigreeFunction : 0.471876302083333"
"Mean of Age : 33.2408854166667"
"Mean of Outcome : 0.348958333333333"
```

Activities

Finding the Maximum value

```
i=1

count <- nrow(d)

while(i<=ncol(d)){
  c <- d[i]
  max_ <- max(c)
  max_

  print(paste("Max of ",colnames(c)," : ",max_))

  i=i+1
}
```

```
[1] "Max of Pregnancies : 17"
[1] "Max of Glucose : 199"
[1] "Max of BloodPressure : 122"
[1] "Max of SkinThickness : 99"
[1] "Max of Insulin : 846"
[1] "Max of BMI : 67.1"
[1] "Max of DiabetesPedigreeFunction : 2.42"
[1] "Max of Age : 81"
[1] "Max of Outcome : 1"
```

Activities

Finding the minimum value

```
115
116 count <- nrow(d)
117
118 while(i<=ncol(d)){
119   c <- d[i]
120   min_ <- min(c)
121   min_
122
123   print(paste("Min of ",colnames(c)," : ",min_))
124
125   i=i+1
126 }
127
```

125:8 (Top Level) R Sc

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```
+ min_ <- min(c)
+ min_
+
+ print(paste("Min of ",colnames(c)," : ",min_))
+
+ i=i+1
+ }
```

```
[1] "Min of Pregnancies : 0"
[1] "Min of Glucose : 0"
[1] "Min of BloodPressure : 0"
[1] "Min of SkinThickness : 0"
[1] "Min of Insulin : 0"
[1] "Min of BMI : 0"
[1] "Min of DiabetesPedigreeFunction : 0.078"
[1] "Min of Age : 21"
[1] "Min of Outcome : 0"
```

Activities

Finding the number of columns and rows present in the data frame

```
nrow(d)  
ncol(d)
```

```
> nrow(d)  
[1] 768  
> ncol(d)  
[1] 9
```