Exploring-DataAnalysis-.R

Harini G

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#Name: Harini G

#1.Define the object "myobject" and assign the vector 1:10 in at least 3
different ways
myobject=1:10
myobject

##  [1]  1  2  3  4  5  6  7  8  9 10

myobject=c(1,2,3,4,5,6,7,8,9,10)
myobject

##  [1]  1  2  3  4  5  6  7  8  9 10

myobject=seq(from=1, to=10, by=1)
myobject

##  [1]  1  2  3  4  5  6  7  8  9 10

#2.Get the sum of your object
sum(myobject)

## [1] 55

#3.Create the following vector by using the paste function
#[1] "R is great 4 and I will love it"
#[2] "R is great 7 and I will love it"
#[3] "R is great 45 and I will love it"
paste('R','is','great',4,'and','I','will','love','it')

## [1] "R is great 4 and I will love it"

paste('R','is','great',7,'and','I','will','love','it')

## [1] "R is great 7 and I will love it"

paste('R','is','great',45,'and','I','will','love','it')

## [1] "R is great 45 and I will love it"

#4.Vector of 1,2,3, repeat the vector to get 11 x 1, 10 x 2, and 10 x3
vector=rep(c(1,2,3),times=c(11,10,10))
vector

##  [1] 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3
```

```r
#5.What is the value of this vector on position 7?
vector[7]
```

```
## [1] 1
```

```r
#6.Repeat the string "Hello R" thrice
string=rep(("Hello R"),times=3)
string
```

```
## [1] "Hello R" "Hello R" "Hello R"
```

```r
#7.Repeat the first  element of a vector  twice and the second element of the vector thrice
#Eg: 1  1  2 2 2
vector=rep(c(1,2,3),times=c(2,3,0))
vector
```

```
## [1] 1 1 2 2 2
```

```r
#8.Create a matrix of two rows and three columns
matrix(1:6, nrow = 2, ncol = 3)
```

```
##      [,1] [,2] [,3]
## [1,]    1    3    5
## [2,]    2    4    6
```

```r
#9.Create a matrix 3X3 by row-wise.
rbind(c(1,2,3),c(4,5,6),c(7,8,9))
```

```
##      [,1] [,2] [,3]
## [1,]    1    2    3
## [2,]    4    5    6
## [3,]    7    8    9
```

```r
#10.Build a vectors of random values with the sample() function. Find the min(),max(),range(),length(),sum(),prod(),mean(),var().
x=1:1000
math=sample(x, 50, replace = FALSE, prob = NULL)
math
```

```
##  [1] 759 956 395 858 928 862 371 615  86 931 792 575 744 632 368 743 936
122 426
## [20] 376 302 621 353 752 666 742 969 906  45 683 389  72  33 223 338  84
595 503
## [39]  27 837  19 471  87 493 974 996 144 965 423 241
```

```r
min(math)
```

```
## [1] 19
```

```r
max(math)
```

```
## [1] 996
```

```
range(math)
## [1]  19 996
length(math)
## [1] 50
sum(math)
## [1] 26428
prod(math)
## [1] 5.333606e+128
mean(math)
## [1] 528.56
var(math)
## [1] 98952.13
```