

Edureka loops and functions R

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1. Given a vector "First_Hundred", which comprises of sequence of first hundred natural numbers: • Change all the odd numbers to the string "ODD" • Change all the even numbers to the string "EVEN"

```
first_hundred <- 1:100
first_hundred
```

##	[1]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
##	[19]	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
##	[37]	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
##	[55]	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
##	[73]	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
##	[91]	91	92	93	94	95	96	97	98	99	100								

```
for(number in first_hundred)
{
    if(number %% 2 == 0)
        print("even")
    else
        print("odd")
}
```

[illegible]


```
data("CO2")
mean_1 <- ifelse(CO2$Type == 'Mississippi' & CO2$Treatment == 'chilled', mean(CO2$uptake[64:84]), 'Na')
unique(mean_1)[2]
```

```
## [1] "15.8142857142857"
```

4. On the “CO2” data-set, use ‘tapply()’ function to obtain mean, median, minimum and maximum values of ‘uptake’ with respect to the ‘Treatment’ column

```
tapply(CO2$uptake, CO2$Treatment, mean)
```

```
## nonchilled    chilled
##    30.64286    23.78333
```

```
tapply(CO2$uptake, CO2$Treatment, median)
```

```
## nonchilled    chilled
##         31.3         19.7
```

```
tapply(CO2$uptake, CO2$Treatment, min)
```

```
## nonchilled    chilled
##         10.6         7.7
```

```
tapply(CO2$uptake, CO2$Treatment, max)
```

```
## nonchilled    chilled
##         45.5         42.4
```

5. ‘swiss’ is a preloaded data-set in R. Using the ‘invoke_map()’ function, find out the minimum ‘Fertility’ and maximum ‘Infant.Mortality’ from the ‘swiss’ data-set.

```
data("swiss")
library(purrr)
```

```
## Warning: package 'purrr' was built under R version 3.5.2
```

```
invoke_map(list(min_fertility = 'min', max_infant = 'max'), list(swiss$Fertility, swiss$Infant.Mortality))
```

```
## $min_fertility
## [1] 35
##
## $max_infant
## [1] 26.6
```

6. Create a custom function “dice()” which will give a random number between 1-6 every time the function is invoked.

```
dice <- function() {
  sample(1:6)
}
dice()
```

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

```
dice()
```

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