

LAB

STATISTICS WITH R PROGRAMMING FOR VISUALIZATION

COURSE CODE: ITA0435

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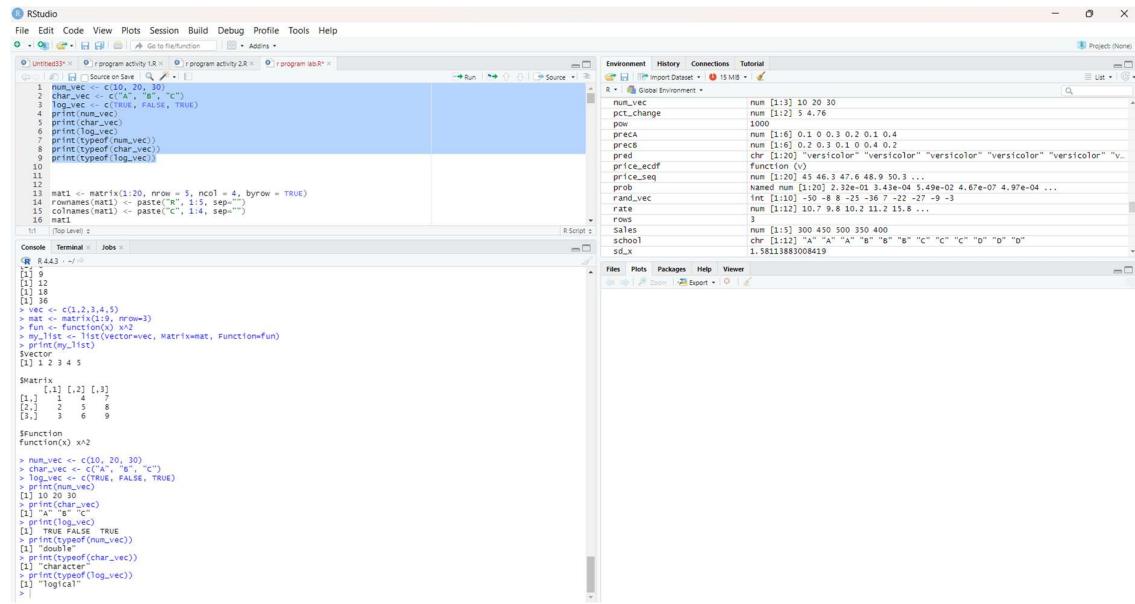
REG NO:192324226

1. Create numeric, character, and logical vectors and display type and content.

CODE:

```
num_vec <- c(10, 20, 30)
char_vec <- c("A", "B", "C")
log_vec <- c(TRUE, FALSE, TRUE)
print(num_vec)
print(char_vec)
print(log_vec)
print(typeof(num_vec))
print(typeof(char_vec))
print(typeof(log_vec))
```

OUTPUT:



The screenshot shows the RStudio interface with the following details:

- Code Editor:** Contains the R code provided above.
- Console:** Shows the output of the R code:

```
[1] 10
[1] "A"
[1] TRUE
[1] 20
[1] "B"
[1] FALSE
[1] 30
[1] "C"
[1] TRUE
[1] FALSE
[1] TRUE
```
- Environment View:** Displays the following objects and their values:

Object	Type	Value
num_vec	numeric	[1:3] 10 20 30
char_vec	character	[1:3] "A" "B" "C"
log_vec	logical	[1:3] TRUE FALSE TRUE
pop	numeric	1000
precA	numeric	[1:6] 0.1 0 0.3 0.2 0.1 0.4
precB	numeric	[1:6] 0.2 0.3 0.1 0.4 0.2
pred	character	[1:6] "versicolor" "versicolor" "versicolor" "versicolor" "versicolor" "versicolor"
price_ecdf	function	<function (y) ...>
price_seq	numeric	[1:20] 45 46.3 47.6 48.9 50.3 ...
prob	named numeric	[1:2] 0.2 0.8
rate	numeric	[1:3] -25 -30 -32
rows	integer	3
sales	numeric	[1:5] 300 450 500 550 400
school	character	[1:12] "A" "A" "B" "B" "C" "C" "D" "D"
sd_X	double	1.58113883098419