



Dr. Runyararo Jolyn Rukarwa

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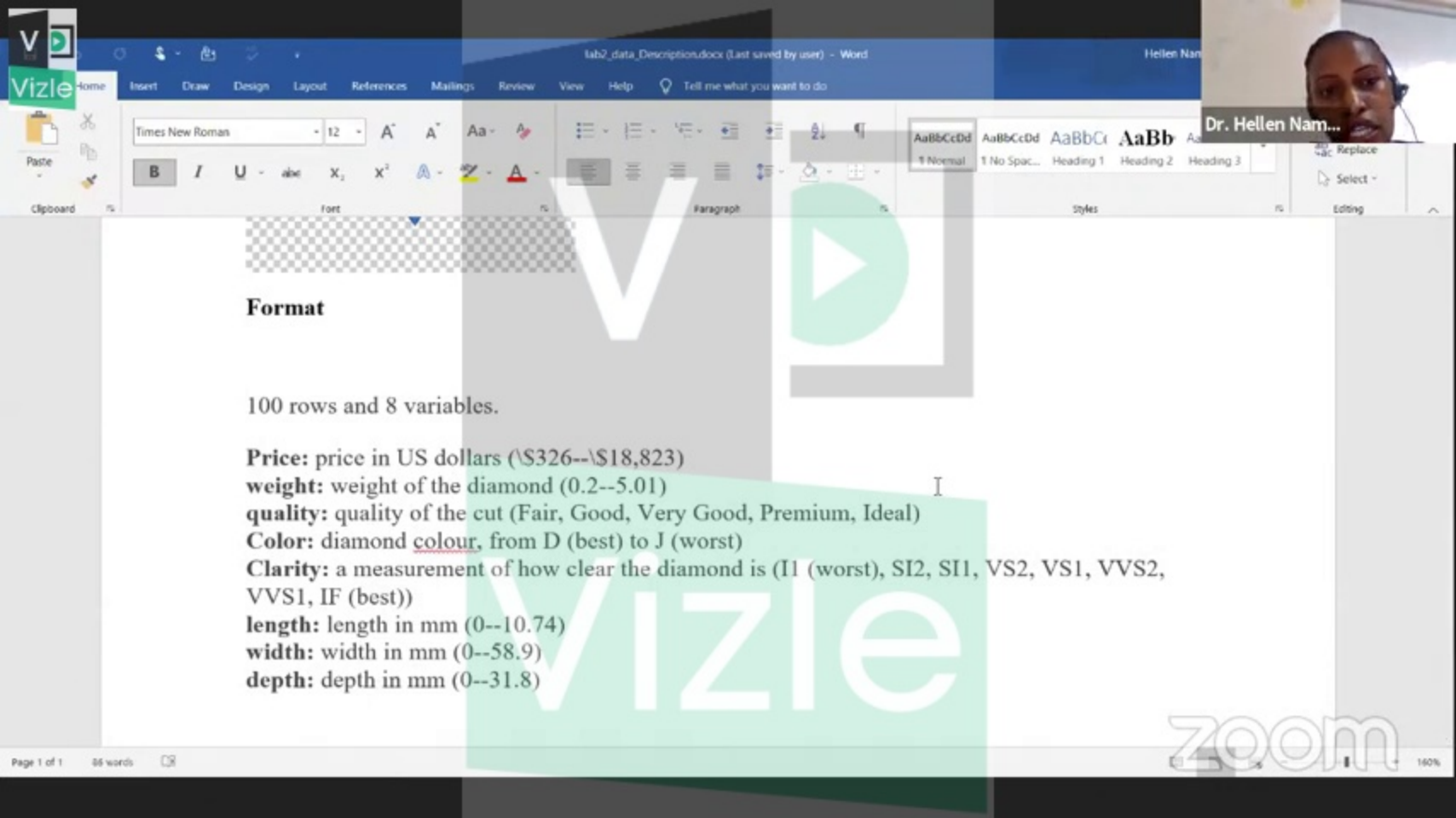
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Microsoft Word ribbon showing Font, Paragraph, and Styles tabs. Font settings include Times New Roman, size 12, bold, italic, underline, and various text colors. Paragraph settings include bullet points, numbering, and indentation. Styles include Normal, No Spacing, and various heading levels.

## Format

100 rows and 8 variables.

**Price:** price in US dollars (\\$326--\\$18,823)

**weight:** weight of the diamond (0.2--5.01)

**quality:** quality of the cut (Fair, Good, Very Good, Premium, Ideal)

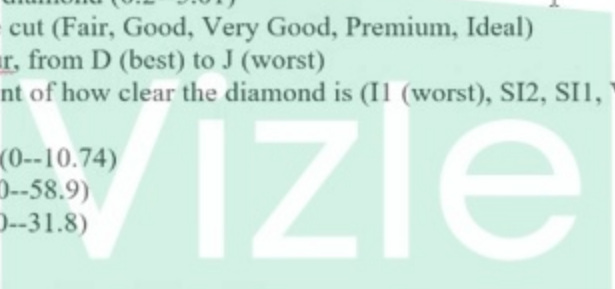
**Color:** diamond colour, from D (best) to J (worst)

**Clarity:** a measurement of how clear the diamond is (I1 (worst), SI2, SI1, VS2, VS1, VVS2, VVS1, IF (best))

**length:** length in mm (0--10.74)

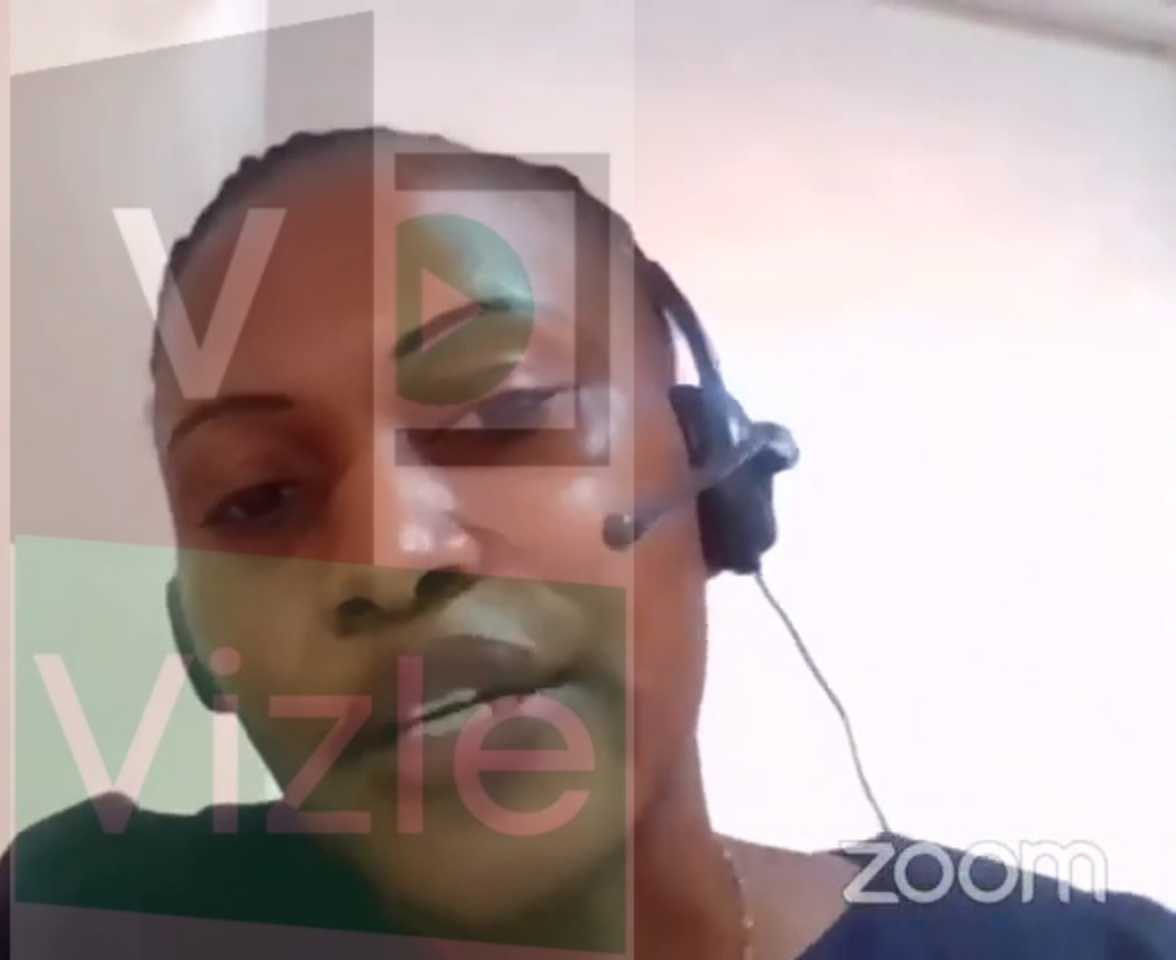
**width:** width in mm (0--58.9)

**depth:** depth in mm (0--31.8)





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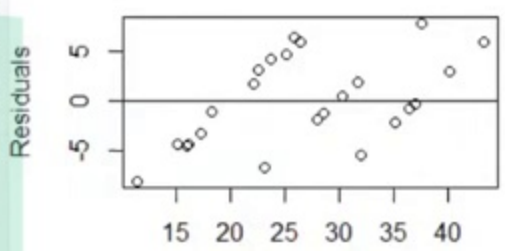
File Edit View Plots Session Build Debug Profile Tools Help  
Go to file/function

```
moduleone.R x  
Source on Save  
Run Source  
15 library(ggpubr)  
16 library(ggplot2)  
17 library(epiDisplay)  
18 library(plotrix)  
19  
20  
21 getwd()  
22 ## setting directory  
23 # copied path "C:\Users\hnama\Desktop\MAK_RUFORUM PROJECT\MODULE ONE", in setwd c  
24 #setwd()  
25  
26 setwd("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE")  
27 #-----  
28  
18:17 (Top Level) R Script
```

Environment History Console  
Import Dataset  
Global Environment  
Environment is empty

```
Console Terminal Jobs  
C:/Users/hnama/Desktop/DAY ONE_TRAINING/Experimental/  
> library(tidyverse)  
> library(learnr)  
> library(dplyr)  
> library(readx1)  
> library(readr)  
> library(ggpubr)  
> library(ggplot2)  
> library(epiDisplay)  
> library(plotrix)  
> |
```

Files Plots Packages Help Viewer  
Zoom Export



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### Import Excel Data

File/URL:

C:/Users/hnama/Desktop/MAK\_RUFORUM PROJECT/MODULE ONE/lab2\_data.xlsx

Browse...

Data Preview:

weight <i>(double)</i>	quality <i>(character)</i>	color <i>(character)</i>	price <i>(double)</i>	length <i>(double)</i>	width <i>(double)</i>	depth <i>(double)</i>
1.03	Premium	G	6214	6.38	6.42	3.99
0.50	Fair	D	1323	5.01	4.97	3.28
1.74	Very Good	H	10086	7.65	7.78	4.79
0.51	Ideal	D	1882	5.18	5.16	3.16
0.70	Ideal	H	2294	5.64	5.69	3.54

Previewing first 50 entries.

Import Options:

Name:

Sheet:

Range:

Max Rows:

Skip:

NA:

First Row as Names

Open Data Viewer

Code Preview:

```
library(readxl)
lab2_data <- read_excel("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE/lab2_data.xlsx")
view(lab2_data)
```

Reading Excel files using readxl

Import Cancel

Console  
C:/Users/hnama  
> library  
> library  
> library  
> library  
> library  
> library  
> library  
> library  
> library

List

40





	weight	quality	color	price	length	width	depth
1	1.03	Premium	G	6214	6.38	6.42	3.99
2	0.50	Fair	D	1323	5.01	4.97	3.28
3	1.74	Very Good	H	10086	7.65	7.78	4.79
4	0.51	Ideal	D	1882	5.18	5.16	3.16
5	0.70	Ideal	H	2294	5.64	5.69	3.54
6	0.71	Ideal	H	3190	5.71	5.75	3.55
7	0.32	Very Good	E	672	4.36	4.33	2.75
8	0.90	Fair	G	1939	6.05	5.99	3.92

Showing 1 to 8 of 100 entries, 7 total columns

```
Console Terminal Jobs
C:/Users/hnama/Desktop/DAY ONE_TRAINING/Experimental/
> library(plotrix)
> library(readxl)
> lab2_data <- read_excel("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE/lab2_data.xlsx")
> view(lab2_data)
> library(readxl)
> lab2_data <- read_excel("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE/lab2_data.xlsx")
> view(lab2_data)
> |
```



Environment History Console

Import Dataset

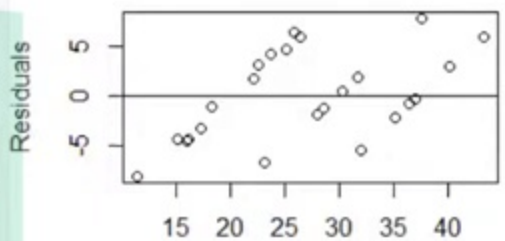
R Global Environment

Data

lab2\_data 100 obs. of 7 variables

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Code View Plots Session Build Debug Profile Tools Help

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moduleone.R\*

Source on Save

Run

Source

```

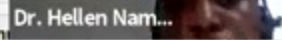
28 read.csv("lab2_data.csv")
29
30
31 ## dataframe and importing data
32
33 # read.csv() command
34
35 diamond<-read.csv("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE/lab2_data.csv")
36
37
38 diamond<- read.csv("C:/Users/hnama/Desktop/MAK_RUFORUM PROJECT/MODULE ONE/lab2_data.csv")
39
40 diamond # view the dataset
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55

```

Console Terminal Jobs

C:/Users/hnama/Desktop/MAK\_RUFORUM PROJECT/MODULE ONE/

45	1.02	Premium	G	43/0	6.42	6.37	4.00
46	1.02	Premium	F	4238	6.52	6.48	3.91
47	1.01	Good	G	5277	6.45	6.49	3.87
48	1.50	Ideal	F	13653	7.43	7.39	4.46
49	1.04	Ideal	H	5805	6.56	6.61	4.00
50	0.50	Premium	D	1752	5.08	5.12	3.12
51	0.71	very Good	E	3192	5.65	5.71	3.53
52	2.01	Premium	F	11903	7.88	7.82	4.87
53	0.51	Ideal	I	1376	5.10	5.13	3.17
54	1.00	Premium	E	4077	6.44	6.39	3.79
55	0.33	Ideal	F	722	4.37	4.42	2.75



Environment History Console

Import Dataset

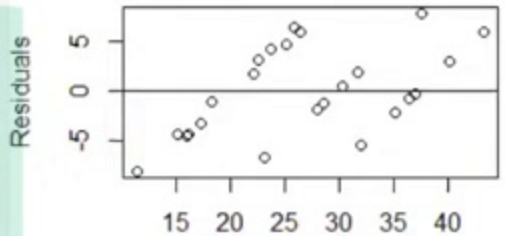
R Global Environment

Data

lab2\_data 100 obs. of 7 variables

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