EXP NO:6	DATA VISUALIZATION USING R
DATE:	

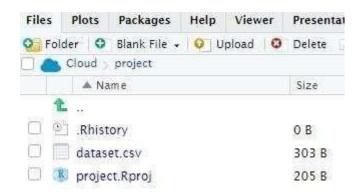
AIM:

To perform data visualization using r programming.

DATA VISUALIZATION:

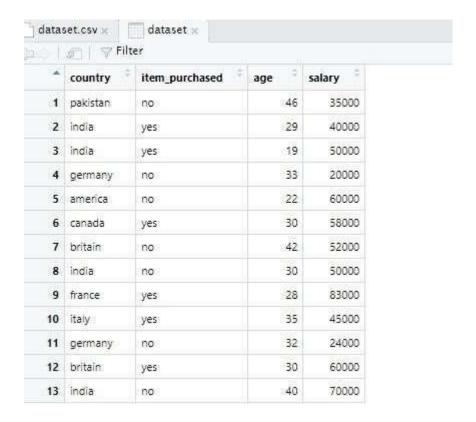
Data visualization is the graphical representation of information and data. By using visual elements like charts, graphs, and maps, data visualization tools provide an accessible way to see and understand trends, outliers, and patterns in data.

UPLOADING THE DATASET:



> dataset

OUTPUT:



INSTALLING THE PACKAGES:

```
> library(tidyverse)
— Attaching packages — tidyverse 1.3.2 -

✓ tibble 3.1.8 ✓ dplyr 1.0.10

✓ tidyr 1.2.1 ✓ stringr 1.4.1

✓ purrr 0.3.4 ✓ forcats 0.5.2
```

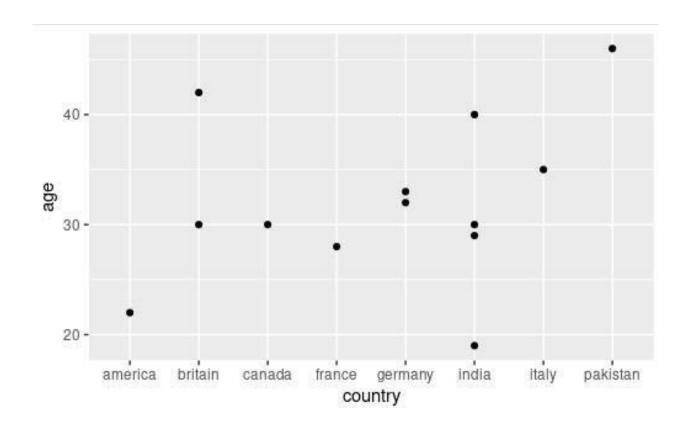
VISUALIZING THE DATASET USING DIFFERENT PLOTS:

SCATTER PLOT:

FOR AGE AND COUNTRY

```
> ggplot(data = dataset) +
    geom_point(mapping = aes(x = country, y = age))
```

OUTPUT:

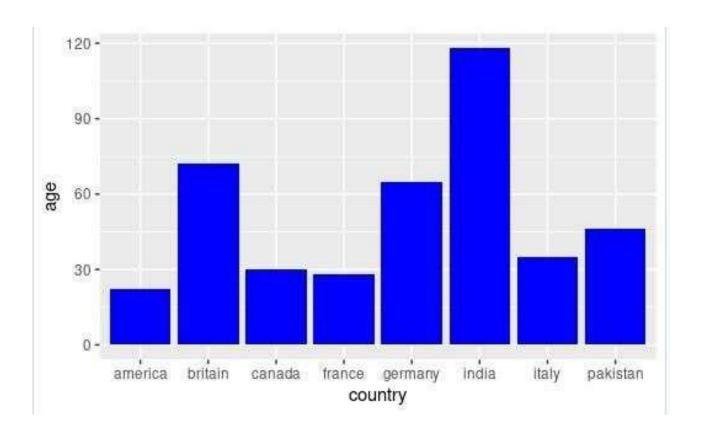


BAR GRAPH:

FOR COUNTRY AND AGE.

```
> ggplot(dataset, aes(country, age)) +
```

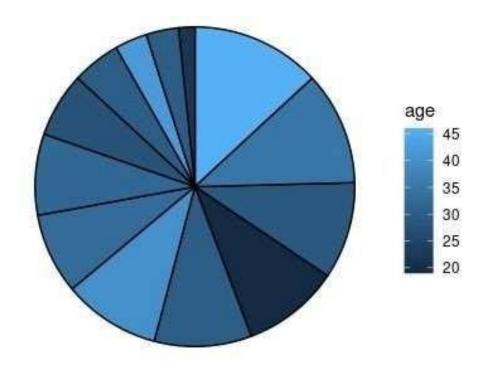
+ geom_bar(stat = "identity", fill = "blue")



PIE CHART:

FOR COUNTRY FILLING WITH AGE.

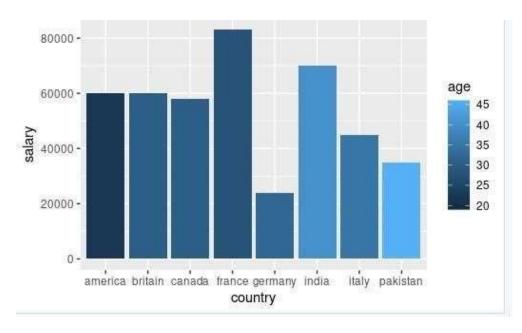
```
ggplot(dataset, aes(x="", y=country, fill=age)) + +
geom_bar(stat="identity", width=1, color="black") +
+ coord_polar("y", start=0) +
+ theme_void()
```



BARGRAPH:

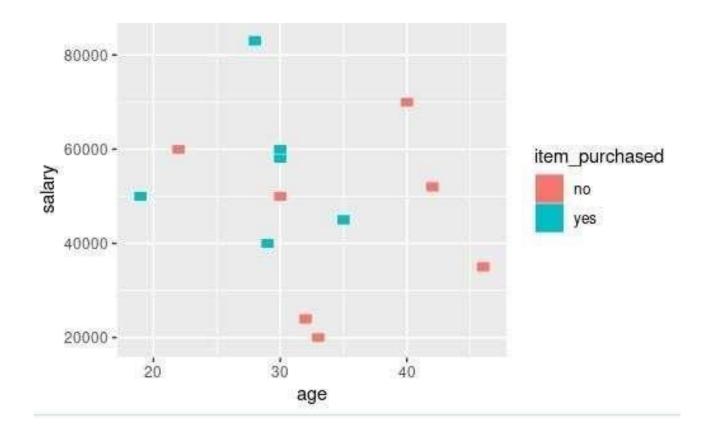
FOR AGE AND COUNTRY:

- > ggplot(dataset, aes(country, salary, fill = age)) +
- + geom_bar(stat = "identity", aes(fill = age), position = "dodge")



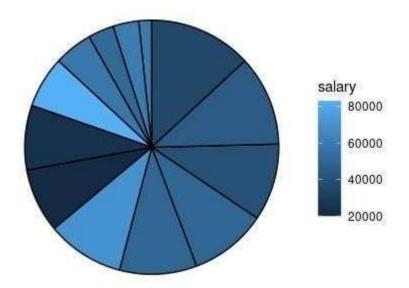
HEAT MAP:

FOR AGE AND SALARY:



PIE CHART:

FOR COUNTRY FILLING WITH SALARY.



RESULT:

Thus the data has been successfully visualized using R programming