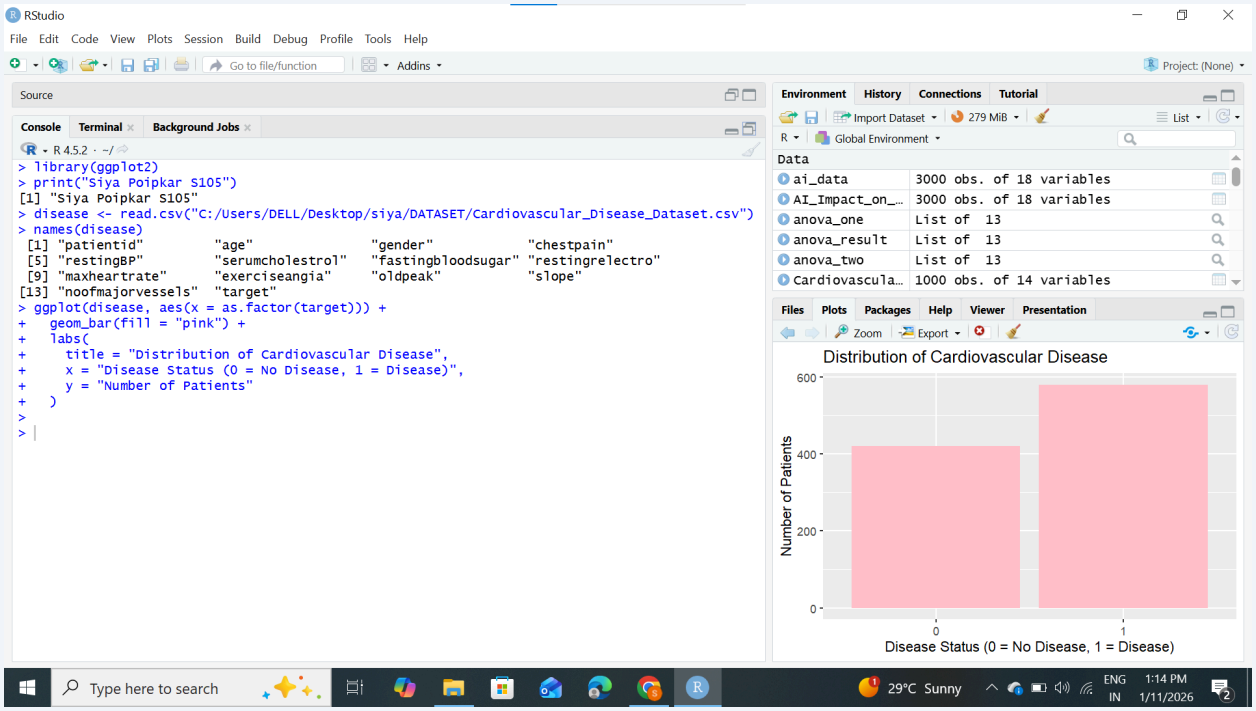
MVLU COLLEGE
R PROGRAMMING
PRACTICAL NO. 10 TO 12 (MODULE 2)

AIM : 10: Creating graphical reports using ,ggplot2 (R).

```
library(ggplot2)
print("Siya Poipkar S105")
disease <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Cardiovascular_Disease_Dataset.csv")
names(disease)

ggplot(disease, aes(x = as.factor(target))) +
 geom_bar(fill = "pink") +
 labs(
  title = "Distribution of Cardiovascular Disease",
  x = "Disease Status (0 = No Disease, 1 = Disease)",
  y = "Number of Patients"
 )
```



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AIM 11: Generating histograms and box plots using ggplot2 (R).

```
library(ggplot2)
print("Siya Poipkar S105")
weather <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Weather.csv")
names(weather)

ggplot(weather, aes(x = Temp3pm)) +
  geom_histogram(binwidth = 2, fill = "blue") +
  labs(
    title = "Histogram of Temperature at 3 PM",
    x = "Temperature (Temp3pm)",
    y = "Frequency"
  )

ggplot(weather, aes(y = Temp3pm)) +
  geom_boxplot(fill = "green") +
  labs(
    title = "Box Plot of Temperature at 3 PM",
    y = "Temperature (Temp3pm)"
  )
```

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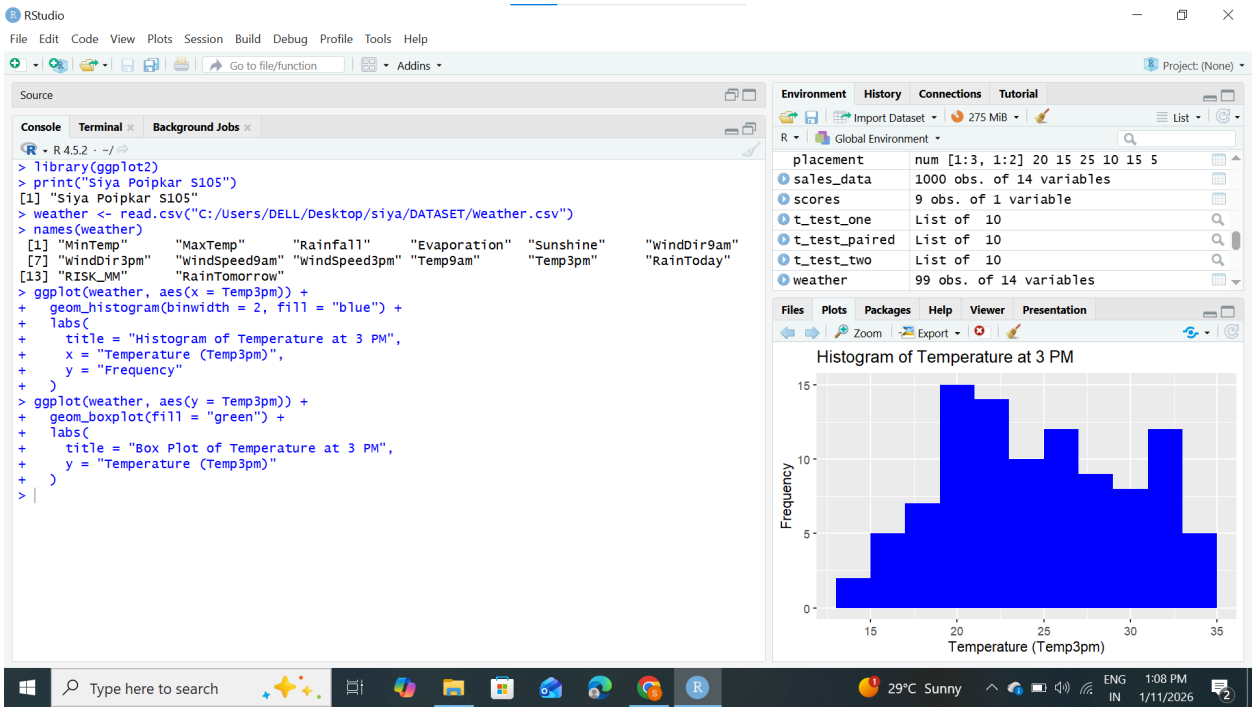

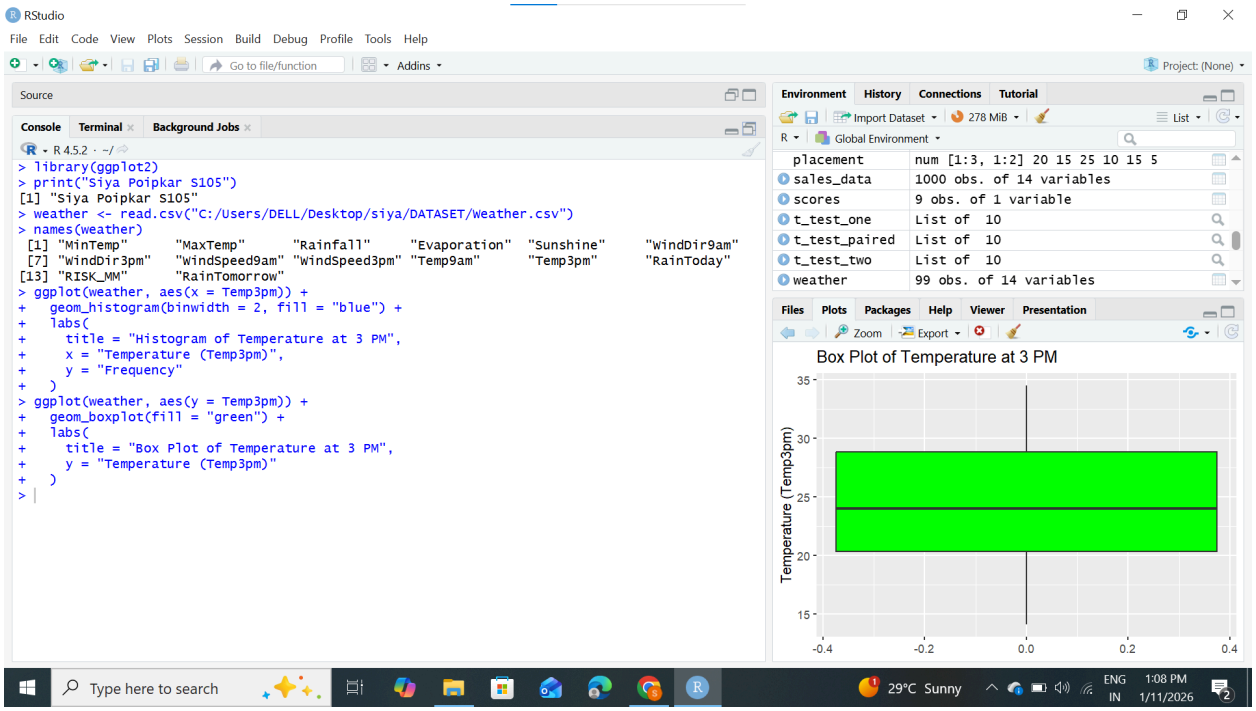

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AIM 12: Generating correlation matrices using cor() (R).

```
print("Siya Poipkar S105")
mall <- read.csv("C:/Users/DELL/Desktop/siya/DATASET/Mall_Customers.csv")

mall_numeric <- mall[, c("Age", "Annual.Income..k..", "Spending.Score..1.100.")]

cor_matrix <- cor(mall_numeric)

print(cor_matrix)
```