**Assignment -1**

**Name: Sowmya Patlolla**

**1. Plotting graphs on College.csv datasets.**

**I. Scatter Plot:**

**Syntax:** Clg <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/College.csv")

View (Clg)

plot (Clg$P.Undergrad, col="92")

A screenshot of a computer

Description automatically generated

**A screen shot of a graph

Description automatically generated**

**II. Histogram**

**Syntax:** Clg <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/College.csv")

hist (Clg$Grad.Rate, xlab = "Grad Rate",

col.lab = "darkgreen", col ="26")

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Description automatically generated

**A graph of a graph

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**III. Scatter Plot with lines**

**Syntax:** Clg <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/College.csv")

plot (Clg$Apps, col = "pink", main = "Apps Vs Accept")

lines (Clg$Accept, col ="blue")

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**2. Plotting graphs on Credit.csv datasets.**

**I. Sunflowerplot:**

**Syntax:** C<- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/Credit.csv")

View(C)

sunflowerplot(C$Income,col="red")

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**II. Plot with lines:**

**Syntax:** C<- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/Credit.csv")

plot (C$Balance,type ="l",col="purple")

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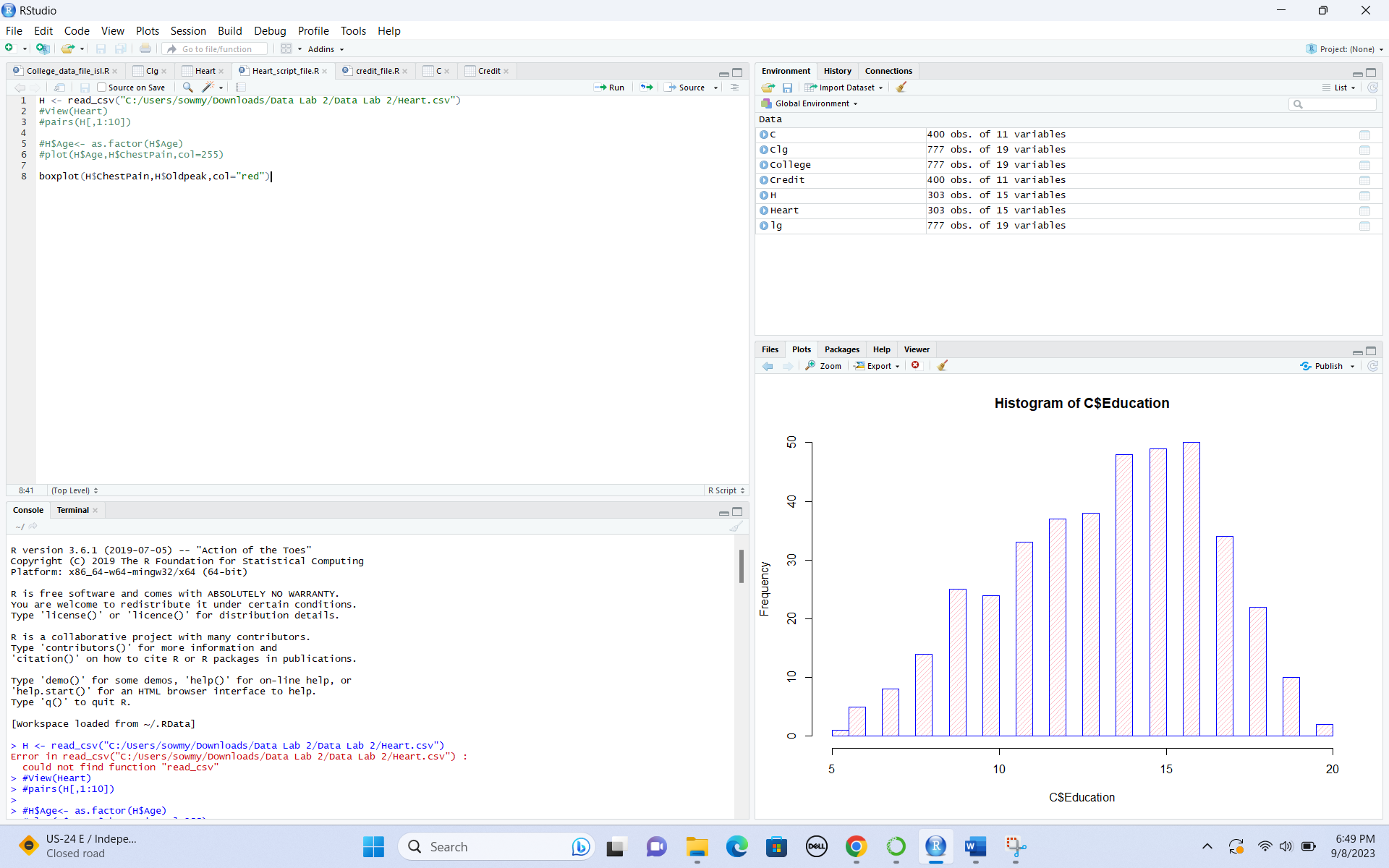
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**III. Histogram:**

**Syntax:** C<- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/Credit.csv")

hist (C$Education,border = "blue",density=20,col = "pink", breaks = 30)



A graph of a graph

Description automatically generated with medium confidence

**3. Plotting graphs on BrainCancer.csv datasets.**

**I. Simple Scatterplot**

**Syntax:** BC <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/BrainCancer.csv")

View (BC)

attach (BC)

plot(ki,gtv)

plot(ki,gtv,col="purple")

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**II. Sunflowerplot:**

**Syntax:** BC <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/BrainCancer.csv")

sex = as.factor(sex)

plot(sex,ki)

sunflowerplot(sex,ki)

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**III. Pairs (matrix of scatter plot):**

**Syntax**: BC <- read\_csv("C:/Users/sowmy/Downloads/Data Lab 2/Data Lab 2/BrainCancer.csv")

sex = as.factor(sex)

pairs(~sex+ki)

pairs(~sex+ki+gtv)

pairs(~sex+ki+gtv+status)

pairs(~sex+ki+gtv+status+time)

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