**Lab 1: GGPlot**

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**Code:**

Data=read.csv("C:/Code/DV\_Lab/Lab1/Dataset.csv", fileEncoding="UTF-8-BOM")

xi=Data$Age.Group

yi=Data$Number.of.Loans

plot(xi,yi,type='h',color='purple')

zi=Data$Bad.Rate

df=data.frame(xi,yi,zi)

ggplot(data=df, aes(x=xi, y=yi)) + geom\_bar(stat="identity", fill="black")+xlab("Age Groups")+ylab("Number Of Loans")

ggplot(data=df) + geom\_bar(aes(x=xi, y=yi),stat="identity", fill="black")+geom\_line(aes(x=xi, y=zi),stat="identity",group=1)+

scale\_y\_continuous(sec.axis = sec\_axis(~./max(df$yi)))

ggplot(df) +

geom\_col(aes(x = xi, y = yi)) +

geom\_line(aes(x = xi, y = zi/0.0005,colour = "Bad.Rate", group = 1),

size = 1) +

scale\_y\_continuous(sec.axis = sec\_axis(~.\*0.0005, name = "BadRate")) +

labs(y = "No. 0f Loans", x = "Age")+

scale\_colour\_manual("", breaks=c("Bad.Rate"),values=c("red"))+

theme(legend.position = c(0.9, 0.95))

**Output:**



