Sm lab 3:

2)

Error: unexpected symbol in "salesfirm A"

> salesfirmA=c(200,300,400,300,200,100,200,300)

> salesfirmB=c(300,200,350,200,300,300,100,200)

> df=data.frame(year,salesfirmA,salesfirmB)

> df

year salesfirmA salesfirmB

1 2000 200 300

2 2001 300 200

3 2002 400 350

4 2003 300 200

5 2004 200 300

6 2005 100 300

7 2006 200 100

8 2007 300 200

> df1=data.frame(year,salesfirmA)

> df2=data.frame(year,salesfirmB)

> plot(df1,type="l",col="brown",xlab="year",ylab="salesfirmA")

> lines(df2,type="l",col="black",xlab="year",ylab="salesfirmB")

>

3) > year=c("2007-08","2008-09","2009-10","2010-11","2011-12","2012-13")

> df

year servicetax

1 1999 34567

2 1999 89765

3 1999 56456

4 1999 67543

5 1999 67543

6 1999 76545

> df=data.frame(year,servicetax)

> df

year servicetax

1 2007-08 34567

2 2008-09 89765

3 2009-10 56456

4 2010-11 67543

5 2011-12 67543

6 2012-13 76545

> barplot(df,xlab="year",ylab="servicetax",col="orange")

Error in barplot.default(df, xlab = "year", ylab = "servicetax", col = "orange") :

'height' must be a vector or a matrix

> barplot(df,xlab="year",ylab="servicetax",col="black")

Error in barplot.default(df, xlab = "year", ylab = "servicetax", col = "black") :

'height' must be a vector or a matrix

> barplot(servicetax,xlab="year",ylab="servicetax",col="black",names.arg="year",main="service tax")



4)

source\_of\_error=c("bad weld","poor alignment","missing part","paint flow","electrical short","cracked case")

> number\_of\_defects=c(34,223,25,78,19,21)

> df=data.frame(source\_of\_error,number\_of\_defects)

> df

source\_of\_error number\_of\_defects

1 bad weld 34

2 poor alignment 223

3 missing part 25

4 paint flow 78

5 electrical short 19

6 cracked case 21

> pie(source\_of\_error,number\_of\_defects,radius=1,main="error vs defects",col=rainbow(length(x)))

Error in pie(source\_of\_error, number\_of\_defects, radius = 1, main = "error vs defects", :

'x' values must be positive.

> pie(number\_of\_defects,source\_of\_error,radius=1,main="defects vs error",col=rainbow(length(number\_of\_defects)))

>



5)

marks=seq(10,100,by=10)

> students=c(8,12,22,35,40,60,52,40,30,5)

> df=data.frame(marks,students)

> df.freq=as.vector(rep(df$marks,df$students))

> hist(ds.freq,,main="marks",xlab="students",breaks=10)

Error in hist(ds.freq, , main = "marks", xlab = "students", breaks = 10) :

object 'ds.freq' not found

> hist(df.freq,main="marks",xlab="marks",breaks=10)

>



6)

x1=seq(2,20,by=2)

> x2=seq(3,30,by=3)

> x3=seq(5,50,by=5)

> df=data.frame(x1,x2,x3)

> df

x1 x2 x3

1 2 3 5

2 4 6 10

3 6 9 15

4 8 12 20

5 10 15 25

6 12 18 30

7 14 21 35

8 16 24 40

9 18 27 45

10 20 30 50

> boxplot(df,main="box plot")

