Aadarsh Baranwal
FYCS A

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Q1: The following table gives the average approximate yield of rice in kg. per acre in various states of India in 2003-04. Represent it by Simple Bar diagram.

State :	Punjab	Haryana	U.P.	Gujarat	Bihar	Karnataka
Yield :	728	943	1469	2903	2153	2276

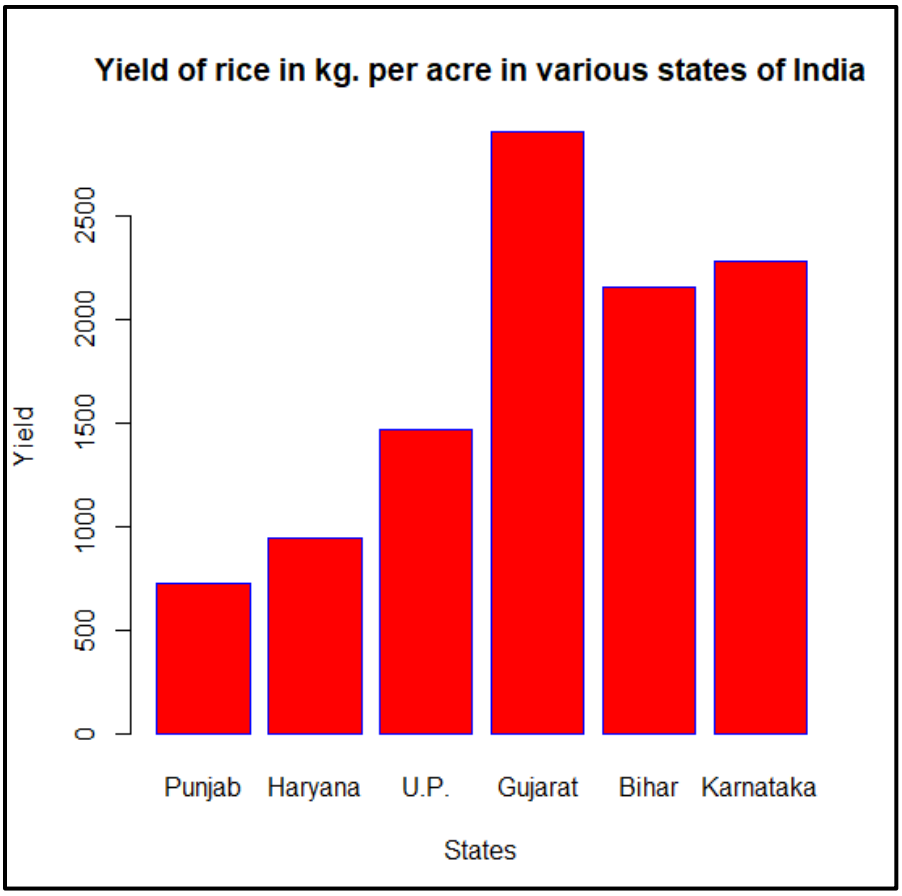
COMMAND:

```
x=c("Punjab", "Haryana", "U.P.", "Gujarat", "Bihar", "Karnataka")

y=c(728, 943, 1469, 2903, 2153, 2276)

barplot(y, names.arg = x, col = "red", border = "blue", main = "Yield of rice in kg. per acre in various states of India", xlab = "States", ylab = "Yield")
```

OUTPUT:



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b. Sales Time series

Year:	2015	2016	2017	2018	2019	2020
Sales:	170	230	280	195	290	310

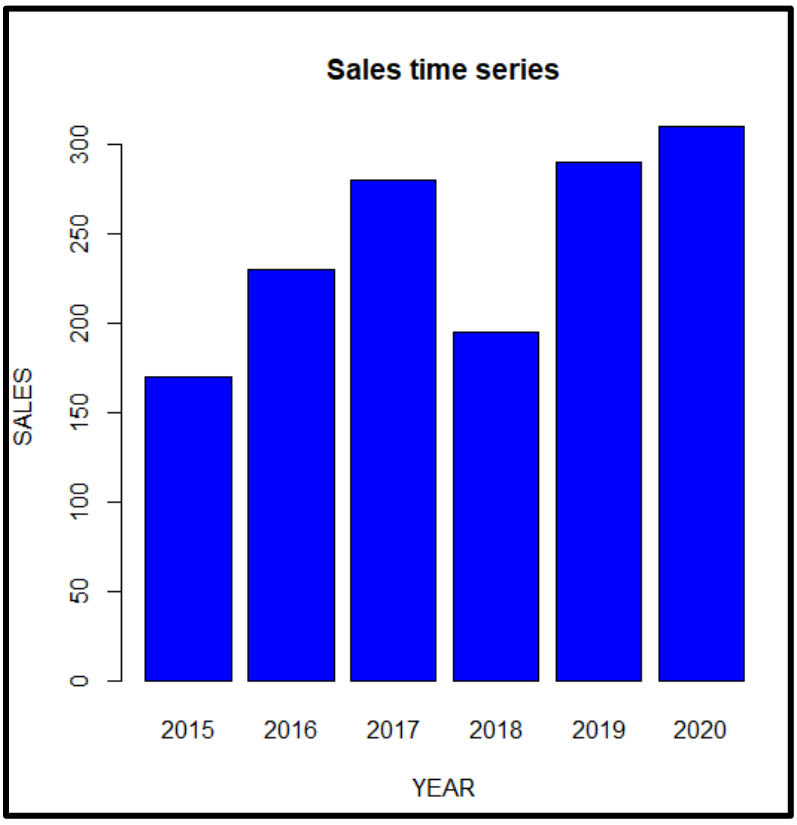
COMMAND:

```
x=c(2015:2020)

y=c(170,230,280,195,290,310)

barplot(y, names.arg = x, col = "blue", border = "black", main = "Sales time series", xlab = "sales", ylab = "year")
```

OUTPUT:



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Q2: Represent the following data on faculty-wise distribution of students, by multiple bar diagram.

College	Arts	Science	Commerce
A	1200	600	500
B	1000	800	650
C	1400	700	850
D	750	900	300

COMMAND:

```
clg=c("A", "B", "C", "D")

clgA=c(1200,600,500)

clgB=c(1000,800,650)

clgC=c(1400,700,850)

clgD=c(750,900,300)

d=data.frame(clgA,clgB,clgC,clgD)

d1=as.matrix(d)

d1

barplot(d1, beside = T, names.arg = clg, col =c("blue","red","green"),legend = c("Arts","Science", "Commerce"),xlab = "College", ylab = "No. of Students",main="Multiple Bar diagram”)
```

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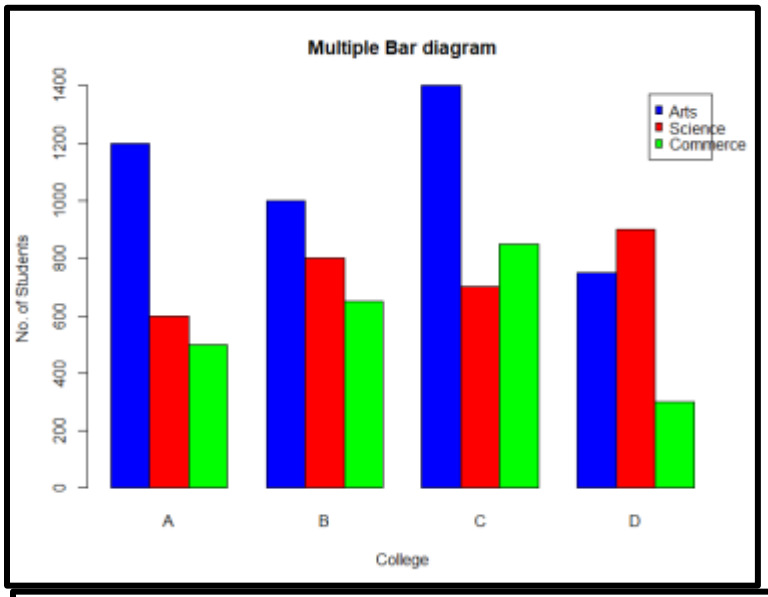
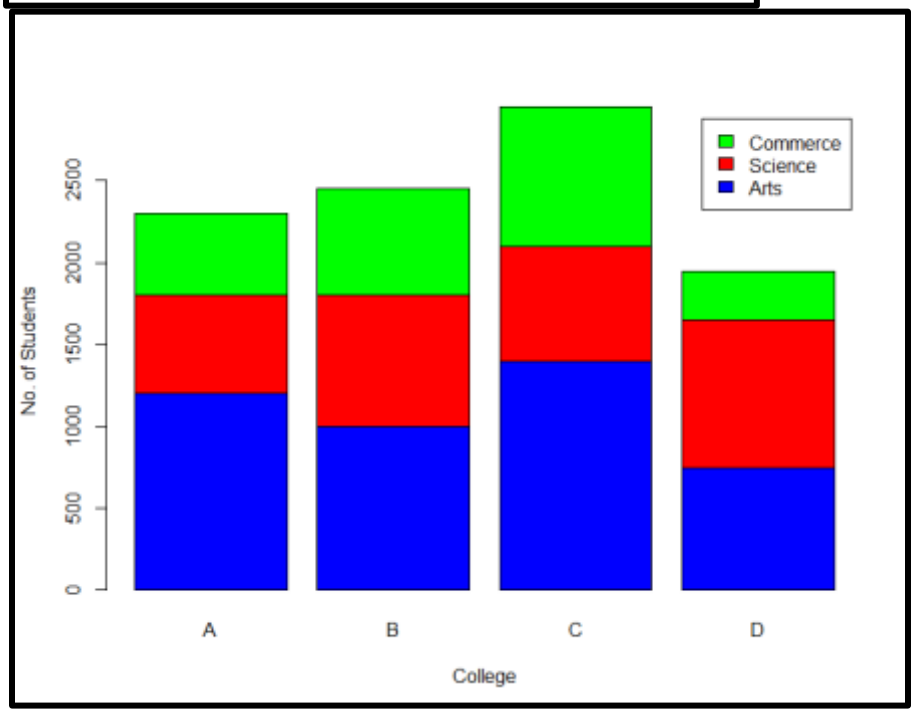


SUBDIVIDED:



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Q3. Yearly Production

Year	Rice	wheat	maize	Sesamum
2011	85	90	45	20
2012	90	89	35	26
2013	95	92	41	30
2014	98	86	51	36

COMMAND:

```
year=2011:2014

a=c(85,90,45,20)

b=c(90,89,35,26)

c=c(95,92,41,30)

d=c(98,86,51,36)

D=data.frame(a,b,c,d)

D1=as.matrix(D)

D1

barplot(D1, beside = TRUE, names.arg = year, col =c("blue","red","green","yellow"),legend = c("Rice","Wheat","Maize","Sesamum"),xlab = "Year", ylab ="Yearly Production")
```

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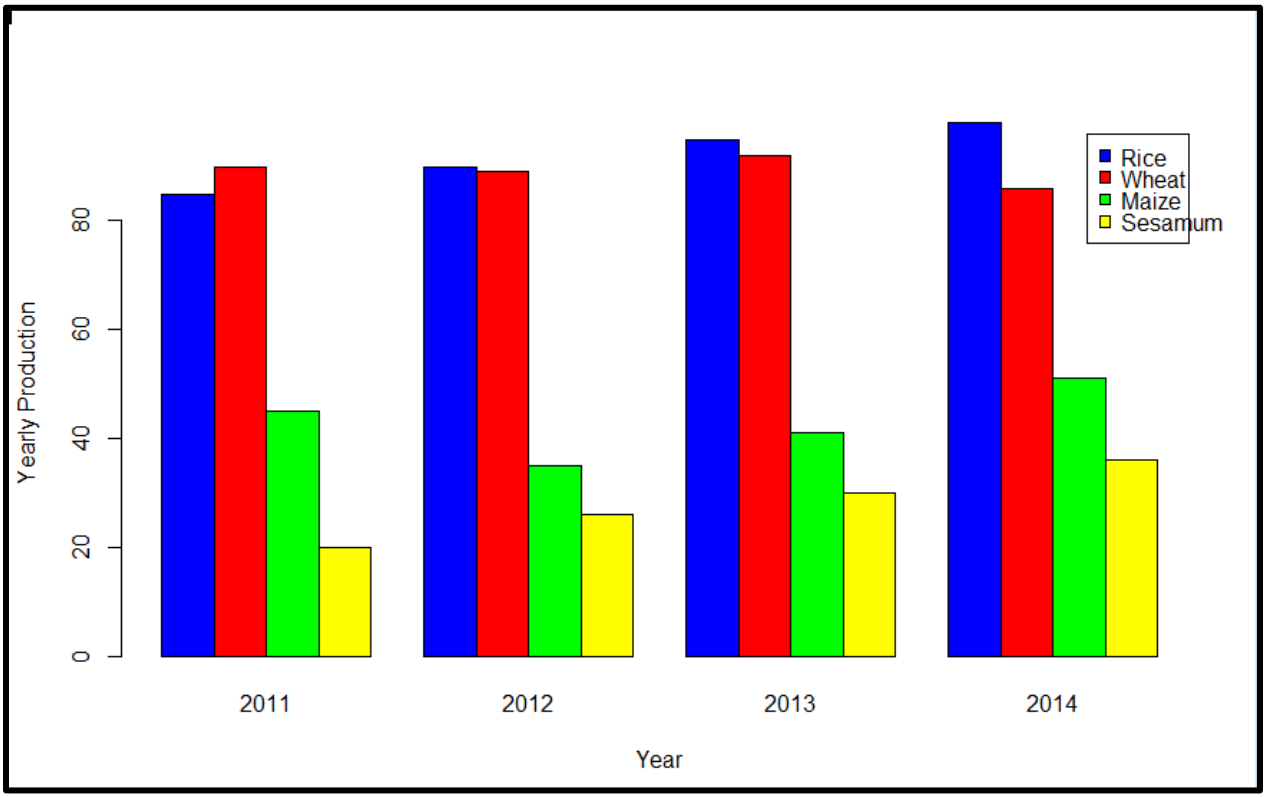

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Q5. Represent the following data by a pie diagram:

Item :	Food	Clothing	Recreation	Indian	Rent	Miscellaneous
Expenditure (in Rs.)	87	24	11	13	25	20

COMMAND:

```
x=c("Food", "Clothing", "Recreation", "Indian", "Rent", "Misc")

y= c(87, 24, 11, 13, 25, 20)

pie(y, main = "Expenditure", labels = x, radius = 1,col= rainbow(length(y)))
```

OUTPUT:

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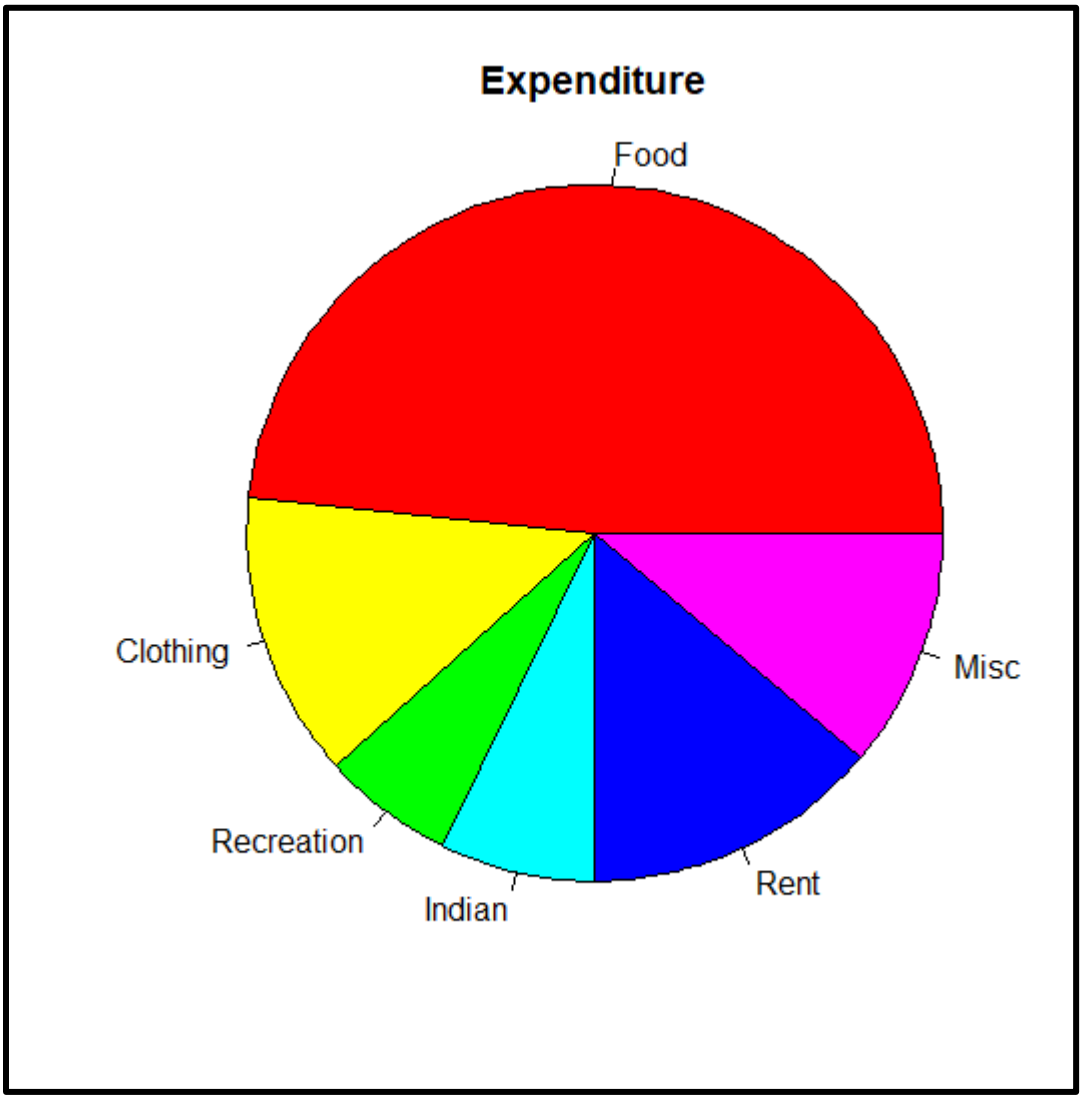

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Q6. Represent using pie chart

Year	Rice	wheat	maize	Sesamum	millet	oats
2020	85	90	45	20	22	8

COMMAND:

```
x=c("RICE", "WHEAT", "MAIZE", "SESAMUM", "MILLET", "OATS")

y= c(85,90,45,20,22,8)
```

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pie(y, main = "Expenditure", labels = x, radius = 1,col= rainbow(length(y)))

OUTPUT: