



Activity 2 – Graphs & Charts

Name: Preyash

Date: 11/01/2022

Registration Number: 20BPS1022

- ★ Prepare a questionnaire and conduct an online survey on your topic (Preferably the current situation) with minimum 50 responses. (or) Secondary data can be used.
- ★ Present the dataset in a Graphs & Charts include table wherever necessary.

Online Learning in VIT

CSV (collected responses)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	fresher	age	collegeRe	semestersOnTeams	missOfflin	moreBreaks	affectingMentalHealth	technicalDifficulties	missingOpportunities	examsCodetant	2HoursEnough			
2	No	19	Yes	more than 3 semesters	Yes	Strongly Disagree	Disagree	Rarely	Disagree	Excellent	Strongly Agree			
3	No	20	Yes	3 semesters	Yes	Strongly Agree	Strongly Agree	Very often	Strongly Agree	Nice	Maybe			
4	No	21	Yes	3 semesters	Yes	Agree	Strongly Agree	Very often	Strongly Agree	Good	Maybe			
5	No	19	No	2 semesters	No	Strongly Agree	Maybe	Rarely	Maybe	Bad	Strongly Disagree			
6	No	18	No	more than 3 semesters	No	Strongly Agree	Strongly Agree	Rarely	Strongly Agree	Very bad	Strongly Disagree			
7	No	18	Yes	3 semesters	Yes	Strongly Agree	Strongly Agree	Rarely	Strongly Agree	Bad	Maybe			
8	No	18	Yes	more than 3 semesters	Yes	Strongly Agree	Strongly Agree	Rarely	Strongly Agree	Bad	Strongly Disagree			
9	Yes	19	Yes	1 semester	Yes	Agree	Maybe	Very often	Strongly Agree	Nice	Maybe			
10	No	17	No	3 semesters	No	Strongly Agree	Agree	Rarely	Agree	Very bad	Strongly Disagree			
11	No	18	Yes	more than 3 semesters	Yes	Strongly Agree	Strongly Agree	Very often	Strongly Agree	Very bad	Maybe			
12	Yes	18	No	1 semester	No	Strongly Agree	Strongly Agree	Rarely	Agree	Very bad	Maybe			
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15	No	20	Yes	2 semesters	Yes	Maybe	Strongly Agree	Very often	Strongly Agree	Bad	Disagree			
16	Yes	18	Yes	2 semesters	Yes	Strongly Agree	Strongly Agree	Very often	Strongly Agree	Nice	Disagree			
17	Yes	21	Yes	1 semester	Yes	Maybe	Agree	Rarely	Strongly Agree	Nice	Maybe			
18	Yes	21	Yes	1 semester	No	Strongly Agree	Agree	Very often	Agree	Good	Maybe			
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51	No	19	Yes	3 semesters	Yes	Strongly Agree	Strongly Agree	Very often	Strongly Agree	Good	Disagree	
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67	Yes	19	Yes	1 semester	Yes	Maybe	Disagree	Very often	Maybe	Bad	Maybe	
68	No	20	Yes	more than 3 semesters	Yes	Strongly Agree	Strongly Agree	Very often	Strongly Agree	Good	Strongly Agree	
69	Yes	20	Yes	1 semester	Yes	Strongly Agree	Agree	Very often	Agree	Nice	Maybe	

Importing the CSV

Run

↑

↓

Source

Import Dataset

172 MiB

List

R

Global Environment

Import Dataset

Name

onlineLearning

Encoding

Automatic

Heading

☒ Yes ☐ No

Row names

Automatic

Separator

Comma

Decimal

Period

Quote

Double quote (")

Comment

None

na.strings

NA

☐ Strings as factors

Input File

fresher,age,collegeReopen,semestersOnTeams,missOffline,more
No,19,Yes,more than 3 semesters,Yes,Strongly Disagree,Disag
No,20,Yes,3 semesters,Yes,Strongly Agree,Strongly Agree,Ver
No,21,Yes,3 semesters,Yes,Agree,Strongly Agree,Very often,S
No,19,No,2 semesters,No,Strongly Agree,Maybe,Rarely,Maybe,B
No,18,No,more than 3 semesters,No,Strongly Agree,Strongly A
No,18,Yes,3 semesters,Yes,Strongly Agree,Strongly Agree,Rare
No,18,Yes,more than 3 semesters,Yes,Strongly Agree,Strongly
Yes,19,Yes,1 semester,Yes,Agree,Maybe,Very often,Strongly A
No,17,No,3 semesters,No,Strongly Agree,Agree,Rarely,Agree,W
No,18,Yes,more than 3 semesters,Yes,Strongly Agree,Strongly
Yes,18,No,1 semester,No,Strongly Agree,Strongly Agree,Rarely
No,19,Yes,3 semesters,Yes,Strongly Agree,Strongly Agree,Rare
No,21,Yes,more than 3 semesters,Yes,Strongly Agree,Strongly
No,20,Yes,2 semesters,Yes,Maybe,Strongly Agree,Very often,S
Yes,18,Yes,2 semesters,Yes,Strongly Agree,Strongly Agree,Ver
Yes,19,Yes,1 semester,Yes,Maybe,Agree,Rarely,Strongly Agree
Yes,21,Yes,1 semester,No,Strongly Agree,Agree,Very often,Ag

Data Frame

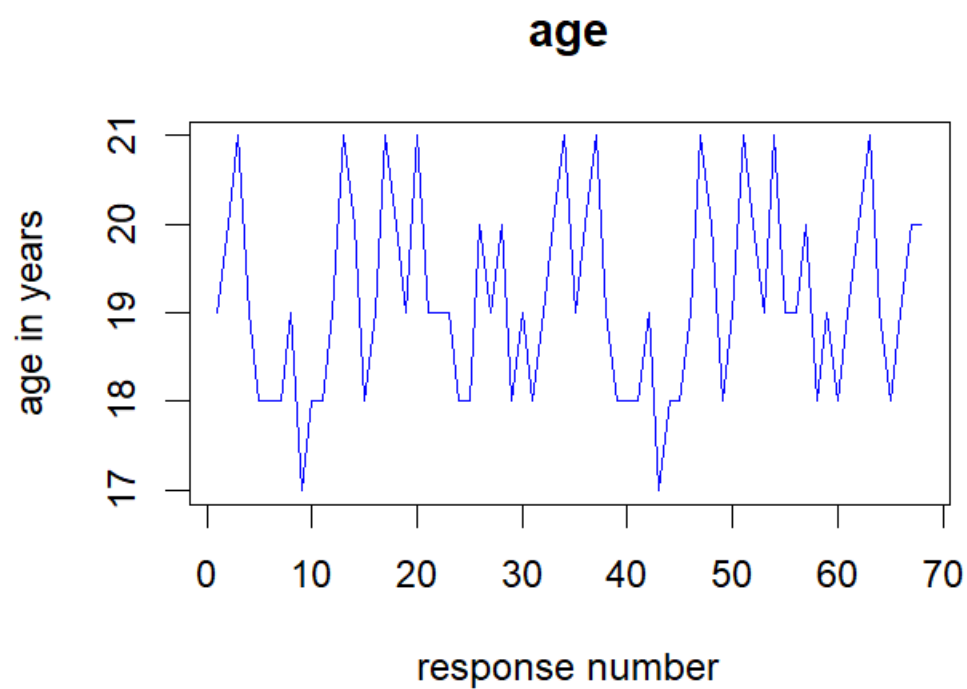
fresheragecollegeReopensemestersOnTeamsmissC
No19Yesmore than 3 semestersYes
No20Yes3 semestersYes
No21Yes3 semestersYes
No19No2 semestersNo
No18No,more than 3 semestersNo
No18Yes3 semestersYes
No18Yes,more than 3 semestersYes
Yes19Yes1 semesterYes
No17No3 semestersNo
No18Yes,more than 3 semestersYes
Yes18No1 semesterNo
No19Yes3 semestersYes
No21Yes,more than 3 semestersYes
Yes18Yes2 semestersYes
Yes19Yes2 semestersYes
Yes21Yes1 semesterNo

Import

Cancel

Q1.) What is your age?

```
plot(onlineLearning$age,type="l",main="age",xlab="responses",ylab="age in years",col="blue")
```



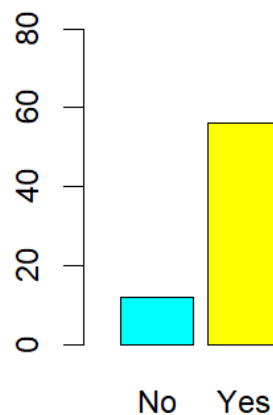
Q2.) Are you a fresher?

```
tableFresher=table(onlineLearning$fresher)  
pie(tableFresher,col=c("blue","red"))
```



Q3.) Do you want the college to reopen?

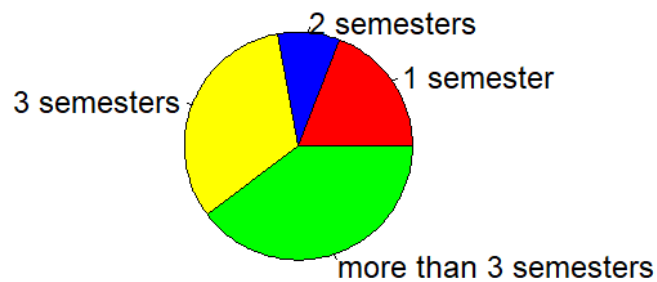
```
tableReopen=table(onlineLearning$collegeReopen)  
barplot(tableReopen,beside=T,xlim=c(0,8),ylim=c(0,80),col=c("cyan","yellow"))
```



Q4.) How many semesters have you spent on MS Teams?

```
tableMStems=table(onlineLearning$semestersOnTeams)
```

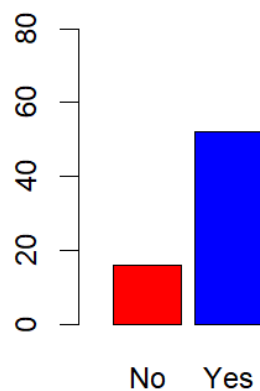
```
pie(tableMStems,col=c("red","blue","yellow","green"))
```



Q5.) Do you miss offline classes?

```
tableMiss=table(onlineLearning$missOffline)
```

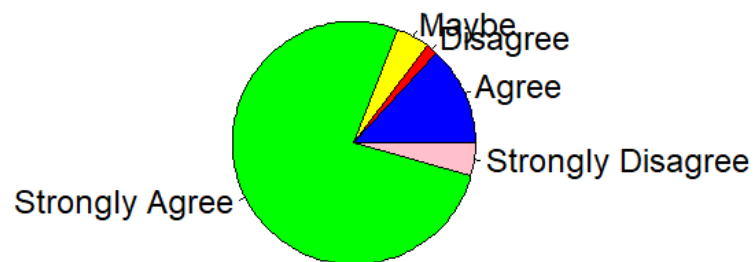
```
barplot(tableMiss,beside=T,xlim=c(0,8),ylim=c(0,80),col=c("red","blue"))
```



Q6.) Do you think we should get more holidays/semester breaks?

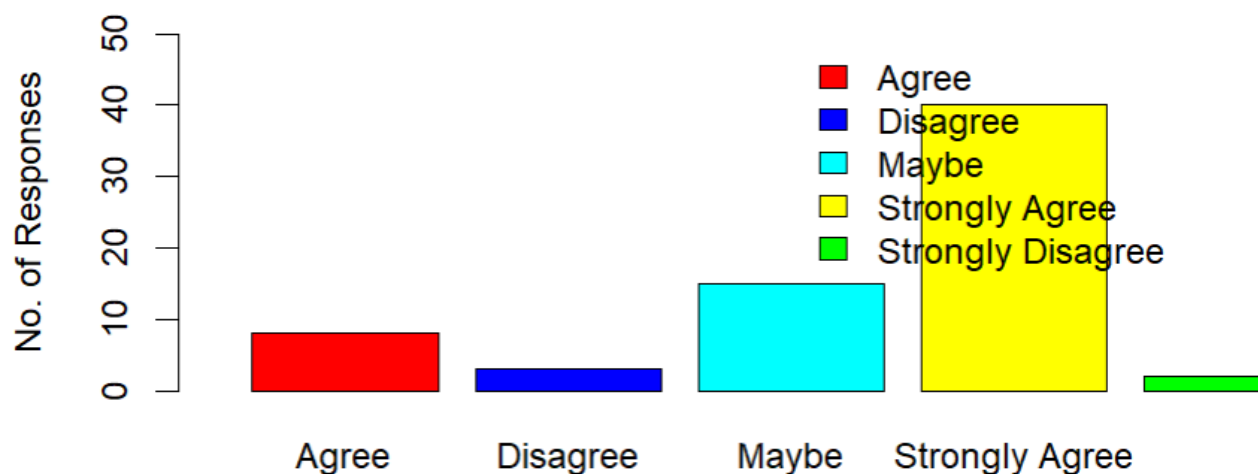
```
tableBreaks=table(onlineLearning$moreBreaks)
```

```
pie(tableBreaks,col=c("blue","red","yellow","green","pink"))
```



Q7.) Do you think online classes are affecting our mental health?

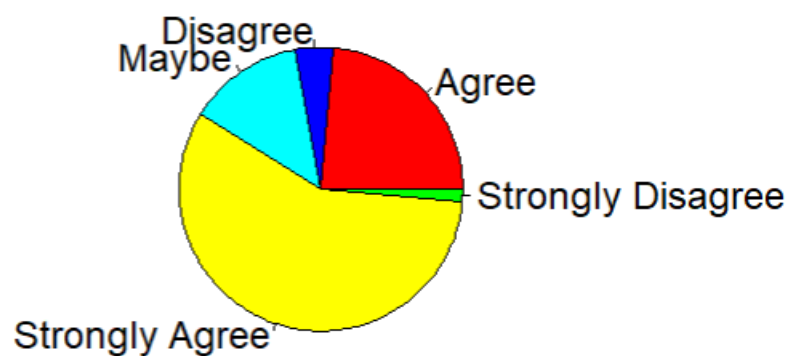
```
tableAffectingMentally=table(onlineLearning$affectingMentalHealth)
barplot(tableAffectingMentally,beside=T,xlim=c(0,5),ylim=c(0,50),col=c(
"red","blue","cyan","yellow","green"),ylab="No. of Responses")
legend("topright",legend=rownames(tableBreaks),fill=c('red','blue','cyan',
'n','yellow','green'),bty="n")
```



Q8.) Do you think we are missing a lot of learning opportunities because of these online classes?

```
tableOppo=table(onlineLearning$missingOpportunities)
```

```
pie(tableOppo,col=c("red","blue","cyan","yellow","green"),xlab="Are  
you missing opportunities?")
```



Are you missing opportunities?

Q9.) How was your experience of exams conducted on Codetantra?

```
tableExp=table(onlineLearning$examsCodetantra)
pie(tableExp,col=c("red","blue","cyan","yellow","green"))
```



Q10.) Do you think 2 hours are enough for solving the FAT questions?

```
boxplot(onlineLearning$age~onlineLearning$X2HoursEnough,col=c("red","blue","cyan","yellow","green"),xlab="Are 2 hours enough for FAT questions.",ylab="age")
```

