Ans3) We are using hore Pitanic dataset to analyze:

Joad data:

> titanic < read. csv ("G: Juser | Desktop | titanic-csv ", headen = True,

Sep=",")

Peek your data

> View (titanic)

This help up to familianising with the data set.

> head Ctitanic,n) tail Ctionic,n)

In order to have a quick look at the data, we often use the head()/tail()-

- and bottom 5 tow of data set.
- names (titanic)

 This help us in checking out all the variables in the data set.
- This help in understanding the structure of the data set.

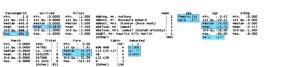
-> Summary (titanic) summany() is one of the most important function that help in summanising each attribute in the data set -s as.factor C data set & column Name) order to such variables treated as factors In and not as no we need explicitly to factor using the function Analysis & Visualization · Survival sate: ggplot (titanic, acs (x= Survived)) + geom - bour () survival mate gendos based No. of passengen

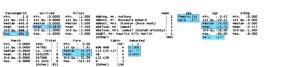
Hanic acs (x= sex, fill = survived) thene-bw () + gcom-bw ()+ labs (y = "Number of passenger",
title = " survived Rate by gene And the state of t

> names(titanic)
[1] "Passengerid" "Survived" "Pclass" "Name" "Sex" "Age" "SibSp" "Parch" "Ticket"
[1] "Cabin" "tebarked"



	PassengerId		Pclass		Name	Sex	Age	sibsp	Parch				Embarked
886		0	3	Rice.	Mrs. William (Margaret Norton)	female	39	. 0	5	382652	29,125		0
887	887	0	2		Montvila, Rev. Juozas				0	211536	13,000		5
888	888		1		Graham, Miss. Margaret Edith				0	112057	30,000	842	5
889	889		3	Johnston,	Miss. Catherine Helen "Carrie"	female	e No	4 7	2	W./C. 6607	23.450		5
890			1		Behr, Mr. Karl Howell				0		30.000		
891	891	0	3		Dooley, Mr. Patrick	male	32	2 0) 0	370376	7.750)	Q





```
titanic$Survived <- as.factor(titanic$Survived)
titanic Spclass <- as. factor (titanic Spclass)
titanic$Sex <- as.factor(titanic$Sex)
titanic$Embarked <- as.factor(titanic$Embarked)
```

> str(titanic)	
'data.frame':	891 obs. of 12 variables:
\$ PassengerId:	int 1 2 3 4 5 6 7 8 9 10
\$ Survived :	Factor w/ 2 levels "0"."1": 1 2 2 2 1 1 1 1 2 2
S Pclass :	Factor w/ 3 levels "1"."2"."3": 3 1 3 1 3 3 2
S Name :	Factor w/ 891 levels "Abbing, Mr. Anthony": 109 191 358 277 16 559 520 629 417 581
S Sex :	Factor w/ 2 levels "female": "male": 2 1 1 1 2 2 2 2 1 1
S Age :	num 22 38 26 35 35 NA 54 2 27 14
\$ sibsp :	int 1 1 0 1 0 0 0 3 0 1
	int 000000120
S Ticket :	Factor w/ 681 levels "110152", "110413": 524 597 670 50 473 276 86 396 345 133
	num 7.25 71.28 7.92 53.1 8.05
\$ cabin :	Factor w/ 148 levels "","A10","A14",: 1 83 1 57 1 1 131 1 1 1
S Embarked :	Factor w/ 4 levels "","C","Q","S": 4 2 4 4 4 3 4 4 4 2

Passengerld	Survived		Pclass		Name	Ses	Age	5205p		Parch		Ticket	Fare	Cabin	Imbated
	1	0		3	Braund, Mr. Owen Harris	male	22.00		1		0	A/5 21171	7.2500		5
	2	1		٦	Cummgs, Mrs. John Bradley Florence Briggs Thayer;	female	38.00		1		0	PC 17599	71,2833	CBS	c
	3	1		3	Heikkinen, Miss. Laina	female	26.00		0		0	STON/O2. \$101282	7.9250		5
	4	1		1	Futrelle, Mrs. Jacques Heath Lily May Peet	female	35.00		1		0	113803	53,1000	C123	5
	5	0		3	Allen, Mr. William Henry	male	35.00		0		0	373450	8.0500		5
		0		3	Moran, Mr. James	mate	1546		0		0	530677	8.4583		Q
	7	0		٦	McCarthy Mr. Timothy 1	male	54.00		0		0	17463	51,8625	E46	5
	8	0		3	Palsson, Master Gosta Leonard	maie	2.00		3		,	349909	21,0750		5
	9	1		3	Johnson, Mrs. Oscar W (thisabeth Vilhelmina Berg)	female	27.00		0		2	347742	11.1233		5
	10	1		2	Nesser, Mrs. Nicholas (Adele Achem)	female	14.00		1		0	237736	30.0706		c