import pandas as pd

data=pd.read\_csv("titanic.csv")

data.head()

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence	female	38.0	1	0	PC 17599	71.283(
- 4 ■										-

print(data)

	PassengerId	Survived	Pclass
0	1	0	3
1	2	1	1
2	3	1	3
3	4	1	1
4	5	0	3
886	887	0	2
887	888	1	1
888	889	0	3
889	890	1	1
890	891	0	3

	Name	Sex	Age	SibSp	\
0	Braund, Mr. Owen Harris	male	22.0	1	
1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	
2	Heikkinen, Miss. Laina	female	26.0	0	
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	
4	Allen, Mr. William Henry	male	35.0	0	
	•••				
886	Montvila, Rev. Juozas	male	27.0	0	
886 887	Montvila, Rev. Juozas Graham, Miss. Margaret Edith			0 0	
	,	female			
887	Graham, Miss. Margaret Edith	female female	19.0 NaN	0	
887 888	Graham, Miss. Margaret Edith Johnston, Miss. Catherine Helen "Carrie"	female female male	19.0 NaN 26.0	0	

\

	Parch	Ticket	Fare	Cabin	Embarked
0	0	A/5 21171	7.2500	NaN	S
1	0	PC 17599	71.2833	C85	C
2	0	STON/02. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
4	0	373450	8.0500	NaN	S
886	0	211536	13.0000	NaN	S
887	0	112053	30.0000	B42	S
888	2	W./C. 6607	23.4500	NaN	S
889	0	111369	30.0000	C148	C
890	0	370376	7.7500	NaN	Q

[891 rows x 12 columns]

data.isnull()

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabi
0	False	False	False	False	False	False	False	False	False	False	Tru
1	False	False	False	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False	False	False	Tru
3	False	False	False	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False	False	False	Tru
886	False	False	False	False	False	False	False	False	False	False	Tru
887	False	False	False	False	False	False	False	False	False	False	False
888	False	False	False	False	False	True	False	False	False	False	True
889	False	False	False	False	False	False	False	False	False	False	False
890	False	False	False	False	False	False	False	False	False	False	True
891 rc	ows × 12 column	s									
1											•

Data\_temp=data

data.info()

```
AttributeError Traceback (most recent call last)
<ipython-input-31-6208d269f320> in <cell line: 1>()
----> 1 data.info()
```

AttributeError: 'function' object has no attribute 'info'

SEARCH STACK OVERFLOW

data.dropna()

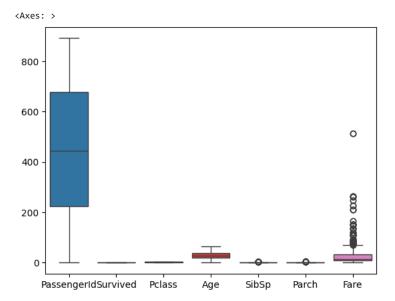
	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Far
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.283
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.100
6	7	0	1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51.862
10	11	1	3	Sandstrom, Miss. Marguerite Rut	female	4.0	1	1	PP 9549	16.700
				Ronnell						
4										<b>•</b>

data.dropna(axis=0)

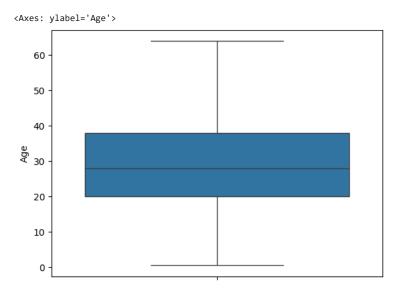
#if we write axis=1 it will delete the column means a attribute or feature whole column in which if we had atleast 1 null value it #will deleted ut if we write axis=0 it will deleted row which are null.

Pa	ssengerId	Survived	Pclass	Name	Sex	Age	SibSb	Parc	h Ti	скет	Fa
				Cumings,							
1	2	1	1	Mrs. John	famala	20.0	4		0	PC	74.0
1	2	1	1		female	30.0	1		0 1	7599	71.2
				(Florence							
				Briggs Th							
				Futrelle,							
				Mrs.							
3	4	1	1	Jacques	female	35.0	1		0 11	3803	53 1
•				Heath (Lily	Torridio	00.0			0 111	0000	00.1
				May Peel)							
				may r con							
				McCarthy,							
6	7	0	1	Mr.	male	54.0	0		0 1	7463	51.8
				Timothy J							
				Sandstrom,							
				Miss.						PP	
10	11	1	3	Marguerite	female	4.0	1		1	9549	16.7
				Rut						00 10	
4				Ronnell							
`											
data.dro	р										
describe	()										
ucsei ibe	()										
Attribut	eError			Trac	eback (n	nost r	ecent c	all l	ast)		
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> 1	data.descr	ibe()									
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Acci Ibuc	eError: 1	unction c	bjece iii	u5 110 ucci 1							
	STACK OVERF		ojece iii	as 110 acci 1							
			ojece iii	as 110 acci 1							
			bjece iii	as no accr							
SEARCH S	STACK OVERF	LOW		as no accir							
SEARCH S	STACK OVERF			as no deer i							
SEARCH S	STACK OVERF	LOW		33 110 0001 1							
SEARCH S	STACK OVERF	LOW		35 110 0001 1							
SEARCH S	STACK OVERF	LOW		3 110 0001							
SEARCHS _temp=Dat	STACK OVERF	LOW	(30)	Passenger	Id Surv	vived	Pclass	; \			
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temp=Dat (data)                      	a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891	pe"].fillna	(30)  of 3 1 3 2 1 3 1 3 Braulley (Fl.	Passenger nd, Mr. Owe orence Brig kkinen, Mis	Name n Harris gs Th s. Laina	e s m . fem	Sex # ale 22 ale 38 ale 26	Age S 2.0 3.0 5.0	1 1 0	\	
temp=Dat (data)   dound m 0 1 2 3 4  886 887 888 889 890 0 1 Cum 2 3	a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891	pe"].fillna	(30)  of  3 1 3 2 1 3 1 3 Heal	Passenger nd, Mr. Owe orence Brig kkinen, Mis ath (Lily M	Name n Harris gs Th s. Laina ay Peel)	e s m fem a fem ) fem	Sex A ale 22 ale 38 ale 26 ale 35	Age S 2.0 3.0	1 1 0 1	\	
temp=Dat (data)   dound m 0 1 2 3 4  886 887 888 889 890 0 1 Cum 2 3	a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891	pe"].fillna	(30)  of  3 1 3 2 1 3 1 3 Heal	Passenger nd, Mr. Owe orence Brig kkinen, Mis	Name n Harris gs Th s. Laina ay Peel)	e s m fem a fem ) fem	Sex A ale 22 ale 38 ale 26 ale 35	Age S 2.0 3.0 5.0	1 1 0	\	
temp=Dat (data)   dound m 0 1 2 3 4  886 887 888 889 890 0 1 Cum 2 3	a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891	pe"].fillna	(30)  of  3 1 3 2 1 3 1 3 Heal	Passenger nd, Mr. Owe orence Brig kkinen, Mis ath (Lily M	Name n Harris gs Th s. Laina ay Peel)	e m fem a fem o fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 35	Age S 2.0 3.0 5.0 5.0	1 1 0 1	\	
temp=Dat (data) <bound 0="" 1="" 2="" 3="" 4="" 4<="" 886="" 887="" 888="" 889="" 90="" cum="" m="" td=""><td>a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891</td><td>pe"].fillna</td><td>(30)  of  3 1 3 2 1 3 1 3  Brauley (Fleides Heides Allen</td><td>Passenger nd, Mr. Owe orence Brig kkinen, Mis ath (Lily M</td><td>Name n Harris gs Th ss. Laina ay Peel) am Henry </td><td>e m fem a fem o fem</td><td>Sex A ale 22 ale 38 ale 26 ale 35 ale 35</td><td>Age S 1.0 3.0 5.0 5.0</td><td>1 1 0 1</td><td>\</td><td></td></bound>	a_temp["Age ethod Data 1 2 3 4 5 887 888 889 890 891	pe"].fillna	(30)  of  3 1 3 2 1 3 1 3  Brauley (Fleides Heides Allen	Passenger nd, Mr. Owe orence Brig kkinen, Mis ath (Lily M	Name n Harris gs Th ss. Laina ay Peel) am Henry 	e m fem a fem o fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 35	Age S 1.0 3.0 5.0 5.0	1 1 0 1	\	
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SEARCH S	a_temp["Age sethod Data 1 2 3 4 5 887 888 889 890 891 sings, Mrs.	ge"].fillna  #Frame.drop  0 1 1 0 0 1 0 John Brace	of 3 1 3 1 3 2 1 3 1 3 Brauniley (Flue Heiler) ques Hee	Passenger Passen	Name n Harris gs Th s. Laina ay Peel) am Henry  . Juozas et Edith	e m fem fem m m fem m fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 35 	Age S 2.0 3.0 5.0 5.0	1 0 1 0	\	
searchs  temp=Dat  (data) <bound 0="" 1="" 2="" 3="" 4="" 886="" 887="" 887<="" 888="" 889="" 90="" cum="" m="" td=""><td>a_temp["Age sethod Data 1 2 3 4 5 887 888 889 890 891 sings, Mrs.</td><td>ge"].fillna  #Frame.drop  0 1 1 0 0 1 0 John Brace</td><td>of 3 1 3 1 3 2 1 3 1 3 Brauulley (Flue Heiler (Flue Allen Mooraham, Moor</td><td>Passenger Passenger Orence Brig kkinen, Mis ath (Lily M , Mr. Willi ntvila, Rev iss. Margar</td><td>Name n Harris gs Th s. Laina ay Peel) am Henry  . Juozas et Editr "Carrie"</td><td>e m fem fem fem m fem fem</td><td>Sex A ale 22 ale 38 ale 26 ale 35 ale 35 ale 27 ale 19 ale 19</td><td>Age S 2.0 3.0 5.0 5.0 5.0</td><td>1 0 1 0 0 0</td><td>\</td><td></td></bound>	a_temp["Age sethod Data 1 2 3 4 5 887 888 889 890 891 sings, Mrs.	ge"].fillna  #Frame.drop  0 1 1 0 0 1 0 John Brace	of 3 1 3 1 3 2 1 3 1 3 Brauulley (Flue Heiler (Flue Allen Mooraham, Moor	Passenger Passenger Orence Brig kkinen, Mis ath (Lily M , Mr. Willi ntvila, Rev iss. Margar	Name n Harris gs Th s. Laina ay Peel) am Henry  . Juozas et Editr "Carrie"	e m fem fem fem m fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 35 ale 27 ale 19 ale 19	Age S 2.0 3.0 5.0 5.0 5.0	1 0 1 0 0 0	\	
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searchs  temp=Dat  (data) <bound 0="" 1="" 2="" 3="" 4="" 886="" 887="" 888="" 889="" 890="" cum="" m="" par<="" td=""><td>a_temp["Age dethod Data 1 2 3 4 5 5 887 888 889 890 891 dethod Bata 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td><td>John Brace, Mrs. Jacket A/5 21171</td><td>of 3 1 3 1 3 2 1 3 1 3 Brauniley (Flue Heiner Allen Monaham, M</td><td>Passenger  Passenger  Passenger</td><td>Name n Harris gs Th s. Laina ay Peel) am Henry  . Juozas et Edith "Carrie" 1 Howell Patrick barked S</td><td>e m fem fem fem m fem fem fem fem</td><td>Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18</td><td>Age S0 30 50 50 70 10 10 10 10</td><td>1 0 1 0  0 1 0</td><td>\</td><td></td></bound>	a_temp["Age dethod Data 1 2 3 4 5 5 887 888 889 890 891 dethod Bata 1 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	John Brace, Mrs. Jacket A/5 21171	of 3 1 3 1 3 2 1 3 1 3 Brauniley (Flue Heiner Allen Monaham, M	Passenger	Name n Harris gs Th s. Laina ay Peel) am Henry  . Juozas et Edith "Carrie" 1 Howell Patrick barked S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0	\	
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SEARCHS  temp=Dat  (data) <bound 0="" 1="" 2="" 3="" 3<="" 4="" 886="" 887="" 888="" 889="" 890="" cum="" m="" par="" td=""><td>a_temp["Age sethod Data 1 2 3 4 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6</td><td>ge"].fillna  aFrame.drop 0 1 1 0 0 1 0 1 0 Ticket A/5 21171 PC 17599 22. 3101282</td><td>(30)  of  3 1 3 2 1 3 1 3 Braun ley (Fl. Hei ques He Allen Mon aham, M . Cathe Bei 7.250 71.28 7.92 53.10</td><td>Passenger  Passenger  Passenger</td><td>Name n Harris gs Th s. Laina ay Peel) am Henry  Juozas et dith "Carrie" 1 Howell Patrick barked S C S S</td><td>e m fem fem fem m fem fem fem fem</td><td>Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18</td><td>Age S0 30 50 50 70 10 10 10 10</td><td>1 0 1 0  0 1 0</td><td>\</td><td></td></bound>	a_temp["Age sethod Data 1 2 3 4 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	ge"].fillna  aFrame.drop 0 1 1 0 0 1 0 1 0 Ticket A/5 21171 PC 17599 22. 3101282	(30)  of  3 1 3 2 1 3 1 3 Braun ley (Fl. Hei ques He Allen Mon aham, M . Cathe Bei 7.250 71.28 7.92 53.10	Passenger	Name n Harris gs Th s. Laina ay Peel) am Henry  Juozas et dith "Carrie" 1 Howell Patrick barked S C S S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0	\	
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SEARCHS	a_temp["Ag  a_temp["Ag  method Data	John Brace, Mrs. Jaces A/5 21171 PC 17599 22. 3101282 113893 373456	(30)  of  3 1 3 2 1 3 1 3 Braulley (FI- Heil ques He Allen Molaham, M . Cathe Bel 7.25: 71.28 7.92: 53.10 8.05:	Passenger	Name n Harris gs Th s. Laina ay Peel) am Henry Juozas et Editr "Carrie" l Howell Patrick barked S C S S S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0		
SEARCH S	a_temp["Age dethod Data 1 2 3 4 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	John Brace, Mrs. Jaces A/S 21171 PC 17599 13101282 113803 373456 211536	(30)  of  3 1 3 1 3 1 3 Brauleley (Fl. Hei. ques He. Allen Monaham, M. Cathee Bel 7.250 71.28 7.92: 53.100 8.055	Passenger  Mr. Owe orence Brig kkinen, Mis ath (Lily M , Mr. Willi ntvila, Rev iss. Margar rine Helen hr, Mr. Kar Dooley, Mr. re Cabin Em 00 NaN 33 C85 50 NaN 00 C123 00 NaN	Name n Harris gs Th s. Laina ay Peel) am Henry Juozas et Edith "Carrie" 1 Howell Patrick barked S C S S S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0	\	
SEARCHS   SEAR	### STACK OVERF  a_temp["Age	Ge"].fillna  Ge"].fillna  Ge"].fillna  Grame.drop  0  1  1  0   0  1  0  John Brac  Graston, Miss  Ticket  A/5 21171  PC 17599  2. 3101282  113803  373456   211536  112053	(30)  of  3 1 3 1 3 2 1 3 1 3 Braulley (Fli Heil ques He. Allen Monaham, M. Cathee Bei 7.250 71.28 7.92 53.10 8.050 13.00 13.00	Passenger  Mr. Owe orence Brig kkinen, Mis ath (Lily M , Mr. Willi intvila, Rev iss. Margar rine Helen hr, Mr. Kar Dooley, Mr. re Cabin Em 00 NaN 33 C85 50 NaN 00 C123 00 NaN 00 NaN	Name n Harris gs Th s. Laina ay Peel) am Henry Juozas et Edith "Carrie" l Howell Patrick barked S C S S S S S S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0	\	
SEARCHS   SEAR	a_temp["Age dethod Data 1 2 3 4 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6	John Brace, Mrs. Jaces A/S 21171 PC 17599 13101282 113803 373456 211536	(30)  of  3 1 3 1 3 2 1 3 1 3 Brauleley (Fleit Heil Heil Heil Heil Heil Heil Heil Heil	Passenger  Mr. Owe orence Brig kkinen, Mis ath (Lily M , Mr. Willi intvila, Rev iss. Margar rine Helen hr, Mr. Kar Dooley, Mr. re Cabin Em 00 NaN 33 C85 50 NaN 00 C123 00 NaN 00 C123 00 NaN 00 RaN 00 RaN 00 RaN	Name n Harris gs Th s. Laina ay Peel) am Henry Juozas et Edith "Carrie" 1 Howell Patrick barked S C S S S	e m fem fem fem m fem fem fem fem	Sex A ale 22 ale 38 ale 26 ale 35 ale 27 ale 18 ale 20 ale 18	Age S0 30 50 50 70 10 10 10 10	1 0 1 0  0 1 0	\	

```
890
                         370376 7.7500
    [891 rows x 12 columns]>
data=pd.read_csv("\titanic.csv")
    FileNotFoundError
                                            Traceback (most recent call last)
    <ipython-input-26-fd5a6c88d20c> in <cell line: 1>()
    ----> 1 data=pd.read_csv("\titanic.csv")
                                    🗘 6 frames
    /usr/local/lib/python3.10/dist-packages/pandas/io/common.py in get_handle(path_or_buf,
    855
                       # Encoding
    --> 856
                       handle = open(
                           handle,
        857
        858
                           ioargs.mode,
    FileNotFoundError: [Errno 2] No such file or directory: '\titanic.csv'
      SEARCH STACK OVERFLOW
Data_temp["Pclass"]=Data_temp["Pclass"].fillna("temp")
Data_temp["Age"]=Data_temp["Age"].fillna(30)
Data_temp["Cabin"]=Data_temp["Cabin"].fillna(5)
#box plot
data=pd.read_csv("titanic.csv")
import seaborn as sns
sns.boxplot(data["Age"])
    <Axes: ylabel='Age'>
        80
                                         0
        70
        60
        50
     eg 40
        30
        20
        10
         0
removedoutliers=data[data["Age"]<65]</pre>
sns.boxplot(removedoutliers)
```



sns.boxplot(removedoutliers["Age"])



```
new_data=data[data["Age"]>65]

#duplicates
data=data.sort_values("Name")

dup=data["Name"].duplicated()

data[dup]
```

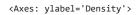
```
PassengerId Survived Pclass Name Sex Age SibSp Parch Ticket Fare Cabin Embal

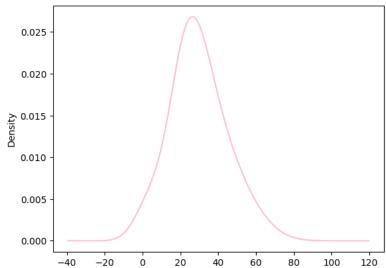
data_age=data["Age"]
scaler=MinMax Scaler()

data=pd.read_csv("titanic.csv")

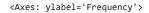
print=(data.isnull().sum())

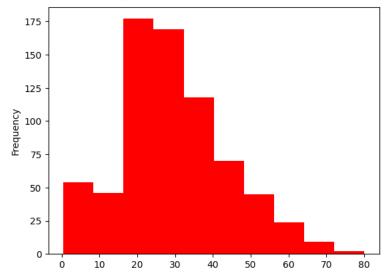
data["Age"].plot.density(bw_method=0.5,color="pink")
#you can change the color as per your choice
```





data["Age"].plot.hist(color="red")





data["Age"].plot.pie(color="black")

```
TypeError

Traceback (most recent call last)

<ipython-input-20-8bc78f0aecdf> in <cell line: 1>()
----> 1 data["Age"].plot.pie(color="black")

5 frames

(usp/local/lib/puthon2 10/dist packages/mathlatlib/ init putin inpon(av data *angs ***buangs)
```