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5.1 Remove	vows/attributes
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import pandas as Pd

col = [Preg', 'Plas', 'pres', 'skin', 'test', 'mass', 'Pedi',

d= Pd. read\_csv ('Pima-indians-diabetes.csv', name; w) co = ['Plas', 'Pres', 'skin', 'test', 'mass']

d[co] = d[co]. replace (o, None)

d = d.dropnac)

Point ('Data after removing with missing swar values 21)

Print (d. head())

## INPUT/OUTPUT:

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	beed	Plas	Pres	skin	test		missing	Valu	<i>પ</i> છ્યું:
3	1	89	66	23	94	mass 28.1	real	orge	chie
4	0	137	40	35	168		10/	21	0
6	3	78	50	32		43.1	2-288	45	1
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	7	197	70	45	543	30.5	0-158	53	
13	(	189	60	23	846	30.1			
						20*(	0.398	59	1

```
with
5.2 Replace with mean or mode
  Program that replaces missing values
  mean or mode for numerical 1 categorical columns
  cols = ['freg!, 'plas!, 'pres! 'skin', 'test', 'mass'
          'pedi', 'age', 'class']
  d = Pd. read-csv ('Pîma-diabetes.csv', names = co15)
 co = [ Plas!, 'Pres! (skin) 'test', mass']
 d[co] = d[co]. replace (o, None)
 for c in d. columns:
        d[c] = d[c].fillna (d[c).meanc))
     if c in co:
        d[c] = d[c].fillna (d[c].mode())
     else:
posint ('pata after replacing missing values: 1)
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Print (d. head ())

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**ROLL NUMBER:** 5.3 Program to Perform transformation of data using Discretion and normalization on given dataset out language of impost pandas as pd from sklearn. Preprocessing import KBinsDiscretizes, cols = ['Preg', 'Plas', 'Pres', 'skin', 'test', mass', 'Pedi', 'age', 'class'] d = Pd. read\_csv ('pima-indians-diabetes.csv') = cols) dis = KBinsDiscretizer (n-bins=5, encode = ondinal) Strategy = 'avuantile') db = dis.fit\_transform(d) 5 = MinMaxScaler() dn = 5.fit-transform (db) dn = Pd. DataFrame (dn, columns = co15) Penint ('First few rows of transformed dataset: 1)

print(dn.head())

ins is the application of program of the second First few rows of transformed dataset: skin test mass Pedi age class Pres Plas Pres 0.0 0.50 0-75 1.00 0-0 1.00 0-50 1.00 0.75 0.0 0.25 0.50 0.50 00 0.66 0-25 0-25 0.00 ユ 000 000 0.75 0.50 00 0.00 1.00 0-25 0.5 0.25 0.00 0.00 1.00 2 0.00 0.25 0-33 0-25 3 4 0.00 0-75 0.00 1.00 1.00 1.00 1.00 0.75 0.0 contine of the binge s. encode : condiner ('Elithouse' = Restorts) (db) mosternort-117-2 10. Do taframe (dr. columns = cols) to ewso was secial) foint Law octarpost dataset: 1)

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