# Name: - L Prathyusha

# Reading and description of data

## In [3]:

import pandas as pd
import numpy as np

## In [4]:

data=pd.read\_csv("C:/Users/Prathyu Lachireddy/Desktop/BP/Students.csv")

#### In [5]:

data

#### Out[5]:

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
0	female	group B	bachelor's degree	standard	none	72	72	74
1	female	group C	some college	standard	completed	69	90	88
2	female	group B	master's degree	standard	none	90	95	93
3	male	group A	associate's degree	free/reduced	none	47	57	44
4	male	group C	some college	standard	none	76	78	75
995	female	group E	master's degree	standard	completed	88	99	95
996	male	group C	high school	free/reduced	none	62	55	55
997	female	group C	high school	free/reduced	completed	59	71	65
998	female	group D	some college	standard	completed	68	78	77
999	female	group D	some college	free/reduced	none	77	86	86

1000 rows × 8 columns

# In [6]:

data.head()

# Out[6]:

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
0	female	group B	bachelor's degree	standard	none	72	72	74
1	female	group C	some college	standard	completed	69	90	88
2	female	group B	master's degree	standard	none	90	95	93
3	male	group A	associate's degree	free/reduced	none	47	57	44
4	male	group C	some college	standard	none	76	78	75

# In [7]:

data.tail()

# Out[7]:

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
995	female	group E	master's degree	standard	completed	88	99	95
996	male	group C	high school	free/reduced	none	62	55	55
997	female	group C	high school	free/reduced	completed	59	71	65
998	female	group D	some college	standard	completed	68	78	77
999	female	group D	some college	free/reduced	none	77	86	86

# In [8]:

```
data.describe
```

## Out[8]:

	und method	NDFrame.descri		g	ender rac	e/ethn	icity par	ental	level
0	female	group B	•	bac	helor's d	egree	stan	dard	
1	female	group C			some co	_	stan		
2	female	group B		m	aster's d	_	stan		
3	male	group A				_	free/red		
4	male	group C			some co	_	stan		
		•••							
995	female	group E		m	aster's d	egree	stan	dard	
996	male	group C				_	free/red	uced	
997	female	group C			high s				
998	female	group D			some co		stan		
999	female	group D			some co	llege	free/red	uced	
	test preparent	aration course	math	score	reading	score	writing	score	
0		none		72		72		74	
1		completed		69		90		88	
2		none		90		95		93	
3		none		47		57		44	
4		none		76		78		75	
		• • •							
995		completed		88		99		95	
996		none		62		55		55	
997		completed		59		71		65	
998		completed		68		78		77	
999		none		77		86		86	

[1000 rows x 8 columns]>

# In [9]:

data.shape

## Out[9]:

(1000, 8)

# In [10]:

data.corr()

## Out[10]:

	math score	reading score	writing score
math score	1.000000	0.817580	0.802642
reading score	0.817580	1.000000	0.954598
writing score	0.802642	0.954598	1.000000

#### In [11]:

```
data.isnull()
```

#### Out[11]:

	gender	race/ethnicity	parental level of education	lunch	test preparation course	math score	reading score	writing score
0	False	False	False	False	False	False	False	False
1	False	False	False	False	False	False	False	False
2	False	False	False	False	False	False	False	False
3	False	False	False	False	False	False	False	False
4	False	False	False	False	False	False	False	False
995	False	False	False	False	False	False	False	False
996	False	False	False	False	False	False	False	False
997	False	False	False	False	False	False	False	False
998	False	False	False	False	False	False	False	False
999	False	False	False	False	False	False	False	False

1000 rows × 8 columns

#### In [12]:

data.columns

#### Out[12]: