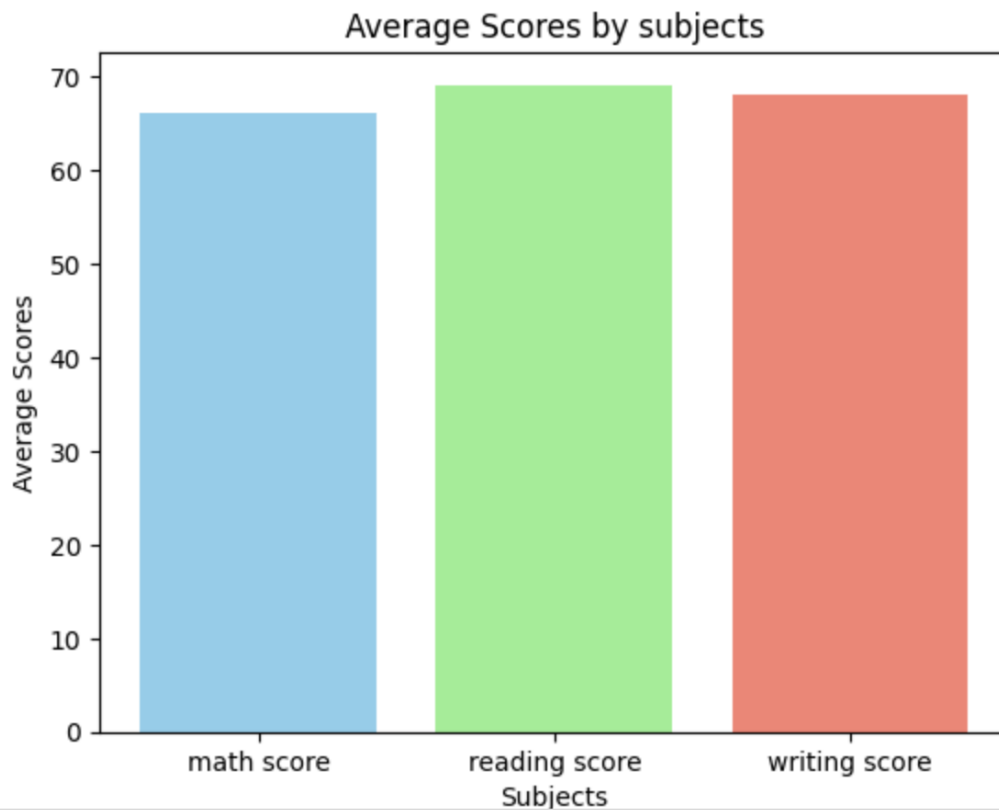


```
1)import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv('StudentsPerformance.csv')
print(df.head())
subjects=["math score","reading score","writing
score"]
means=[df[s].mean() for s in subjects]
plt.bar(subjects,means,color=["skyblue","lightgreen","
salmon"])
plt.title("Average Scores by subjects")
plt.xlabel("Subjects")
plt.ylabel("Average Scores")
plt.show()
```

OUTPUT:

	gender	race/ethnicity	parental level of education	lunch
0	female	group B	bachelor's degree	standard
1	female	group C	some college	standard
2	female	group B	master's degree	standard
3	male	group A	associate's degree	free/reduced
4	male	group C	some college	standard

	test preparation 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



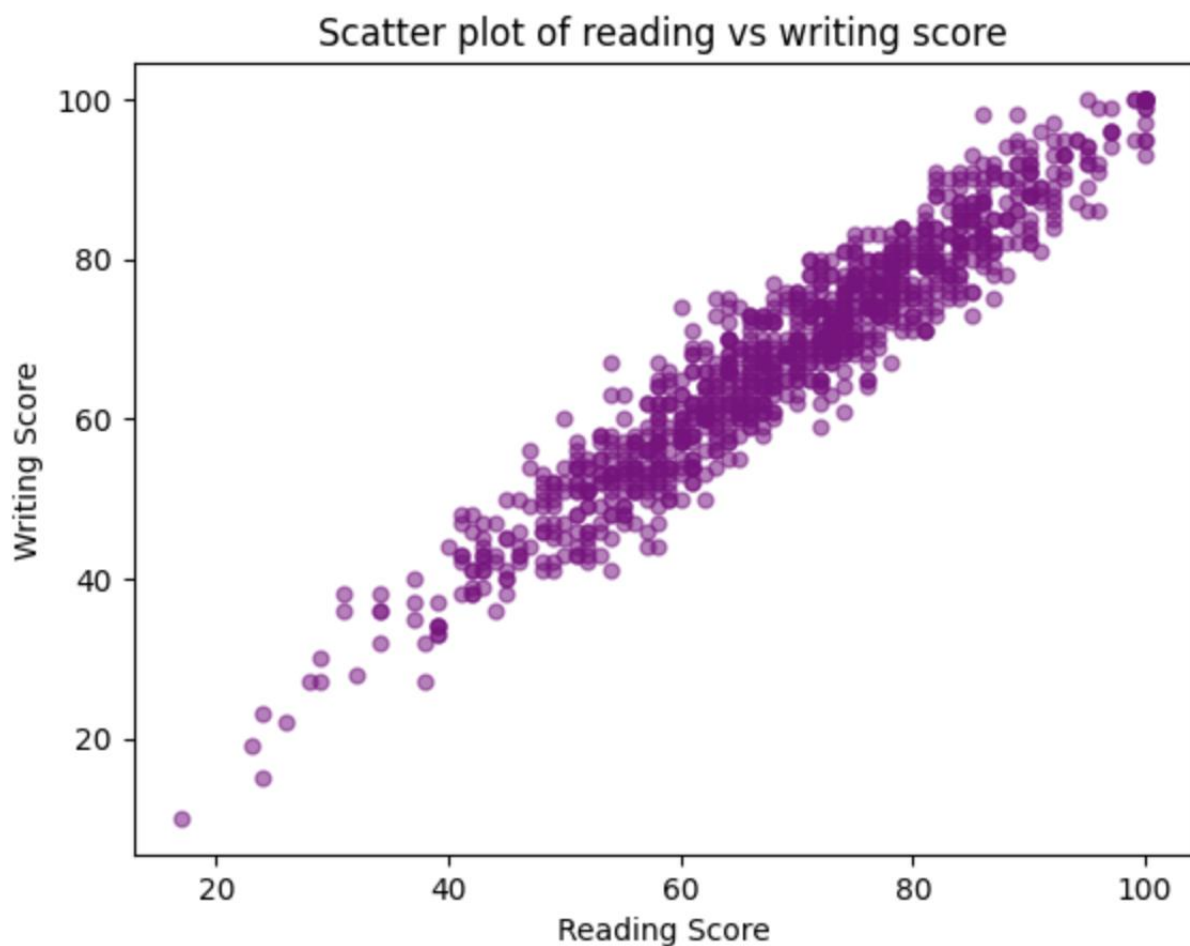
```

2) import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv('StudentsPerformance.csv')
print(df.head())
subjects=["math score","reading score","writing score"]

```

```
plt.scatter(df["reading score"],df["writing  
score"],color="purple",alpha=0.5,s=25)  
plt.title("Scatter plot of reading vs writing score")  
plt.xlabel("Reading Score")  
plt.ylabel("Writing Score")  
plt.show()
```

OUTPUT:



```
3) import pandas as pd  
import matplotlib.pyplot as plt  
df=pd.read_csv('StudentsPerformance.csv')  
print(df.head())
```

```
edu_counts=df["parental level of education"].value_counts()
plt.pie(edu_counts,labels=edu_counts.index,autopct="%1.1f%%",startangle=90,colors=plt.cm.Paired(np.linspace(0,1,len(edu_counts))))
plt.title("Parental level of distribution")
plt.show()
```

OUTPUT:

