```
#RAKSHITHA R
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#Fundamentals of Data Science
#17.07.2025
#LinePlot,Bargraph,Piechart,Histogram and Scatter plot using matplotlib
```
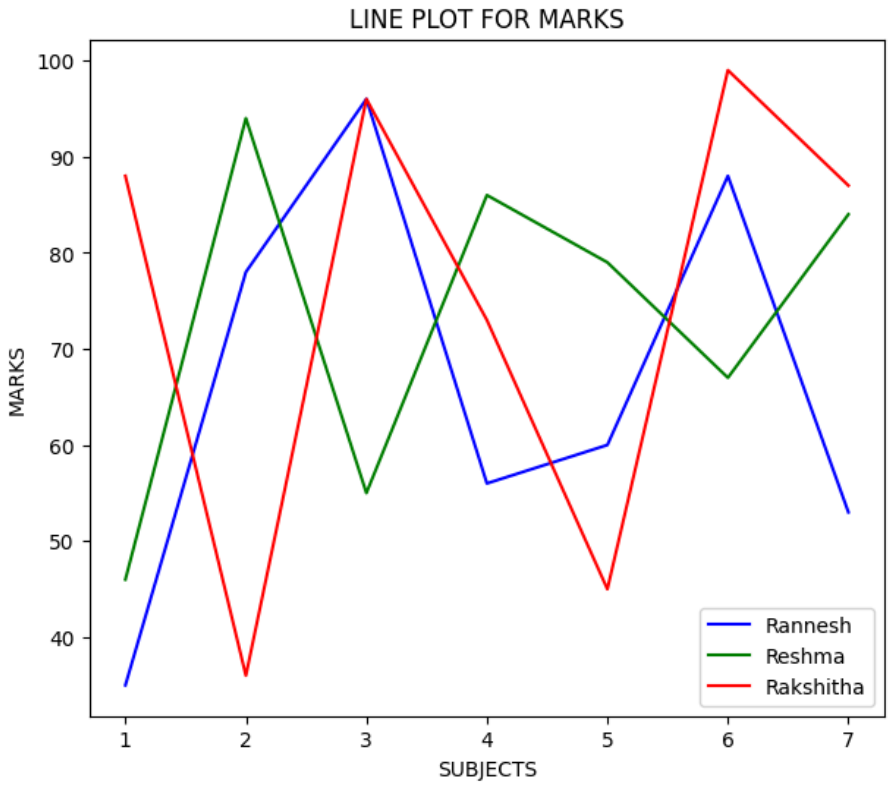
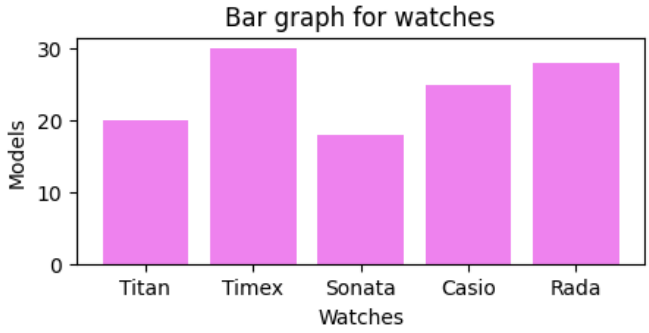
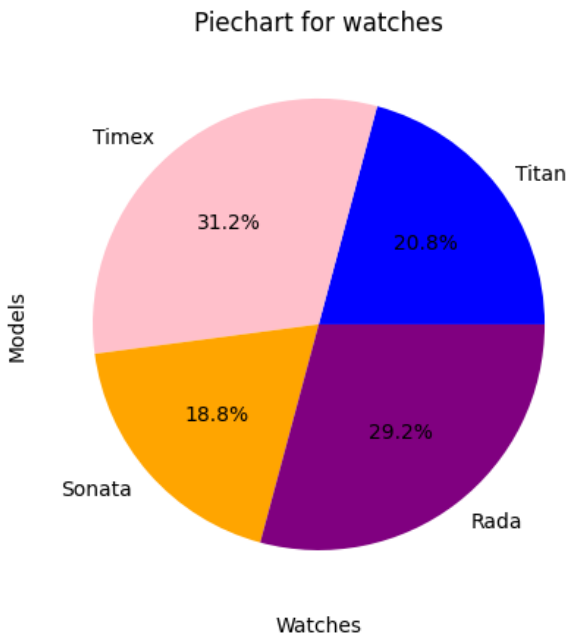

```
import matplotlib.pyplot as plt
sub=list(range(1,8,1))
p1=[35,78,96,56,60,88,53]
p2=[46,94,55,86,79,67,84]
p3=[88,36,96,73,45,99,87]
plt.figure(figsize=(7,6))
plt.plot(sub,p1,color='blue',label='Rannesh')
plt.plot(sub,p2,color='green',label='Reshma')
plt.plot(sub,p3,color='red',label='Rakshitha')
plt.title('LINE PLOT FOR MARKS')
plt.xlabel('SUBJECTS')
plt.ylabel('MARKS')
plt.legend(loc='lower right')
plt.show()
```



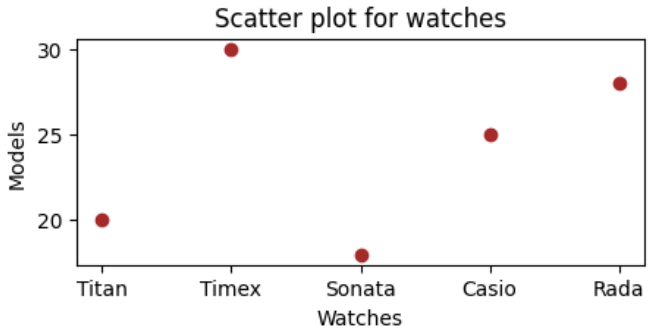

```
import matplotlib.pyplot as plt
watches=['Titan','Timex','Sonata','Casio','Rada']
models=[20,30,18,25,28]
plt.figure(figsize=(5,2))
plt.bar(watches,models,color='violet')
plt.title("Bar graph for watches")
plt.xlabel("Watches")
plt.ylabel("Models")
plt.show()
```




```
import matplotlib.pyplot as plt
watches=['Titan','Timex','Sonata','Rada']
models=[20,30,18,28]
color=['blue','pink','orange','purple']
plt.figure(figsize=(5,5))
plt.pie(models,labels=watches,colors=color,autopct='%1.1f%%')
plt.title("Piechart for watches")
plt.xlabel("Watches")
plt.ylabel("Models")
plt.show()
```




```
import matplotlib.pyplot as plt
watches=['Titan','Timex','Sonata','Casio','Rada']
models=[20,30,18,25,28]
plt.figure(figsize=(5,2))
plt.scatter(watches,models,color='brown')
plt.title("Scatter plot for watches")
plt.xlabel("Watches")
plt.ylabel("Models")
plt.show()
```



```
import matplotlib.pyplot as plt
watches=['Titan','Timex','Sonata','Rada']
models=[20,15,18,12]
color=['blue','pink','orange','purple']
plt.figure(figsize=(6,3))
plt.hist(watches,bins=4,color='gold',edgecolor='black')
plt.title("Histogram for watches")
plt.xlabel("Watches")
plt.ylabel("Models")
plt.show()
```