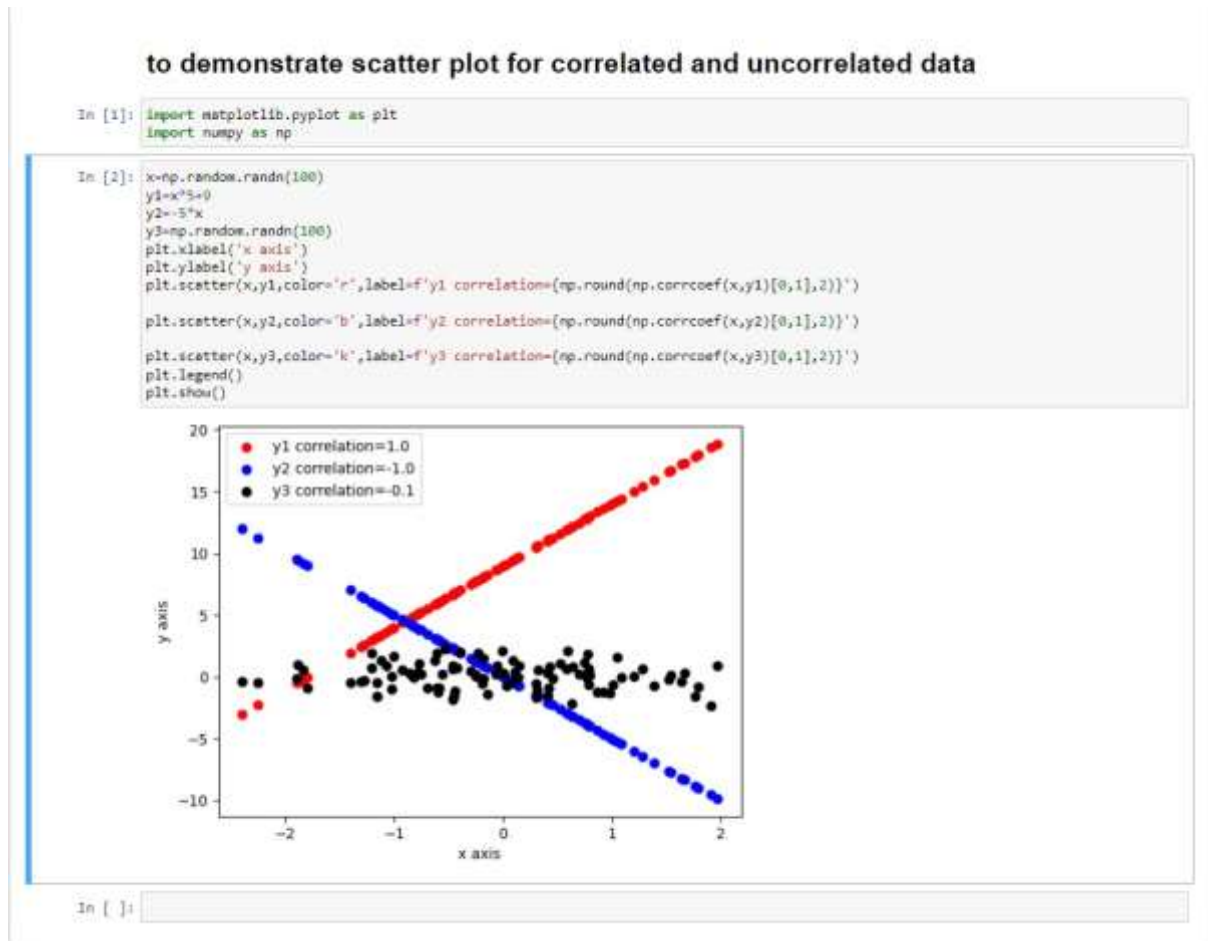
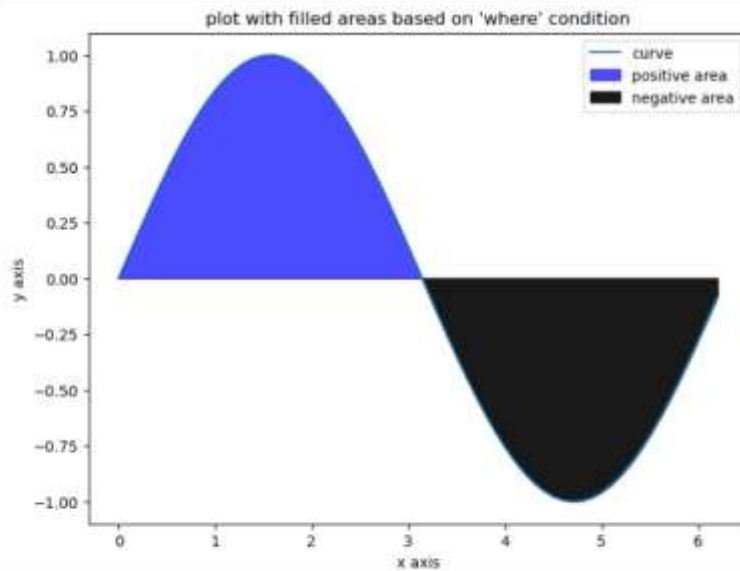


Practicle-7

- To demonstrate scatter plot for correlated and uncorrelated data



```
In [3]: x=np.arange(0,2*np.pi,0.1)
y_sin=np.sin(x)
plt.figure(figsize=(8,6))
plt.xlabel('x axis')
plt.ylabel('y axis')
plt.title("plot with filled areas based on 'where' condition")
plt.plot(x,y_sin,label='curve')
plt.fill_between(x,y_sin,where=(y_sin>=0),interpolate=True,color='b',alpha=0.7,label="positive area")
plt.fill_between(x,y_sin,where=(y_sin<0),interpolate=True,color='k',alpha=0.9,label="negative area")
plt.legend()
plt.show()
```



```
In [ ]: |
```