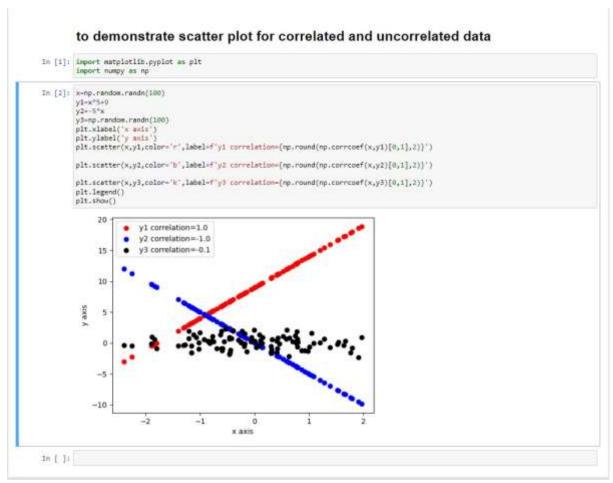
Name: Harsh Pillai Roll No: 6243 Class: SYIT Div: C

## Practicle-7

• To demonstrate scatter plot for correlated and uncorrelated data



Name : Om patil Roll No : 6265 Class : SYIT Div :C

```
In [3]: x=np.arange(@,2*np.pi,@.1)
y_sin=np.sin(x)
plt.figure(figsize=(@,6))
plt.slabel('x_ads')
plt.ylabel('y_ads')
plt.ylabel('y_ads')
plt.title('plot with filled areas based on 'where' condition")
plt.title('plot with filled areas based on 'where' condition")
plt.fill_between(x,y_sin,label='curve')
plt.fill_between(x,y_sin,label='curve'), interpolate=True,color='b',alpha=@.7,label="positive area")
plt.fill_between(x,y_sin,where=(y_sin<0),interpolate=True,color='k',alpha=@.9,label="negative area")
plt.legand()
plt.show()</pre>
                                                                                         plot with filled areas based on 'where' condition
                                                                                                                                                                                                                                      curve
                                   1.00
                                                                                                                                                                                                                        positive area
                                                                                                                                                                                                                           negative area
                                    0.75
                                    0.50
                                    0.25
                                0.00
                                -0.25
                                -0.50
                                -0.75
                                -1.00
                                                           o
                                                                                                                                                        x axis
```

In [ ]: [