```
In [1]: import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import seaborn as sns
```

In [7]: path=r"C:\Users\Mrityunjay\Desktop\Data science naresh it\Class notes by me\EDA_\ba
bank_df=pd.read_csv(path,sep=";")
bank_df

Out[7]:		age	job	marital	education	default	balance	housing	loan	contact	d
	0	30	unemployed	married	primary	no	1787	no	no	cellular	
	1	33	services	married	secondary	no	4789	yes	yes	cellular	
	2	35	management	single	tertiary	no	1350	yes	no	cellular	
	3	30	management	married	tertiary	no	1476	yes	yes	unknown	
	4	59	blue-collar	married	secondary	no	0	yes	no	unknown	
	•••								•••		
	4516	33	services	married	secondary	no	-333	yes	no	cellular	
	4517	57	self- employed	married	tertiary	yes	-3313	yes	yes	unknown	
	4518	57	technician	married	secondary	no	295	no	no	cellular	,
	4519	28	blue-collar	married	secondary	no	1137	no	no	cellular	
	4520	44	entrepreneur	single	tertiary	no	1136	yes	yes	cellular	

4521 rows × 17 columns

→

In [11]: dfs=bank_df.corr(numeric_only=True)
 dfs

Out[11]: balance day duration campaign previous age pdays 1.000000 -0.017853 -0.003511 age 0.083820 -0.002367 -0.005148 -0.008894 balance 0.083820 1.000000 -0.008677 -0.015950 -0.009976 0.009437 0.026196 day -0.017853 -0.008677 1.000000 -0.024629 0.160706 -0.094352 -0.059114 duration -0.002367 -0.024629 1.000000 -0.068382 0.010380 0.018080 -0.015950 campaign -0.005148 -0.009976 0.160706 -0.068382 1.000000 -0.093137 -0.067833 **pdays** -0.008894 0.009437 -0.094352 0.010380 -0.093137 1.000000 0.577562 **previous** -0.003511 0.026196 -0.059114 0.018080 -0.067833 0.577562 1.000000

```
In [17]: #heatmap for seborn package
plt.figure(figsize=(14,8))
sns.heatmap(dfs,annot=True,cmap="Greens")
```

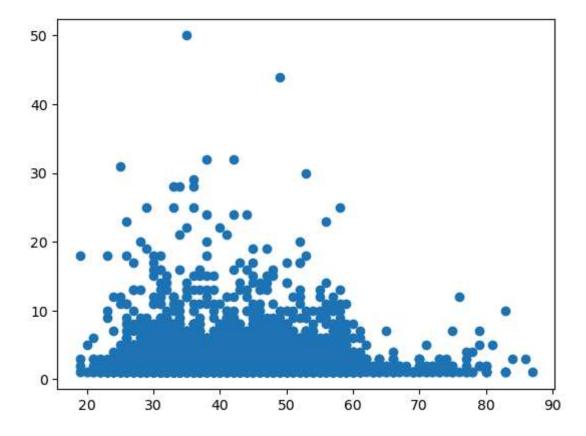
Out[17]: <Axes: >



```
In [21]: #sactter plot
  indx=bank_df["age"]
  colm=bank_df["campaign"]

plt.scatter(indx,colm)
```

Out[21]: <matplotlib.collections.PathCollection at 0x186b7b5f5c0>



In []: