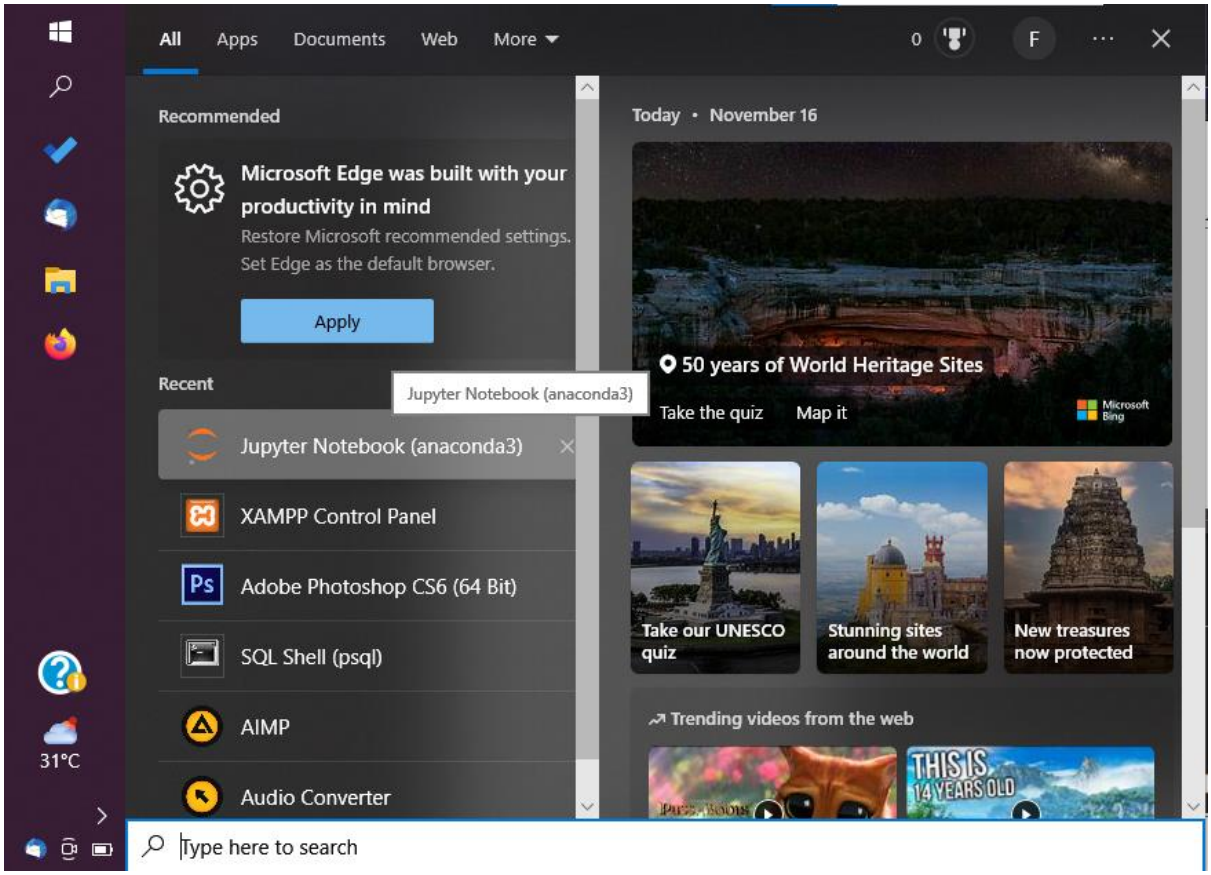
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In [4]:
```
import pandas as pd
#memanggil dan menampilkan dataset
data_nama = pd.read_csv('C:/Users/HP/Downloads/titanic.csv')
print(data_nama)
```

```
     Survived  Pclass                                               Name  \
0           0       3                            Mr. Owen Harris Braund
1           1       1  Mrs. John Bradley (Florence Briggs Thayer) Cum...
2           1       3                       Miss. Laina Heikkinen
3           1       1       Mrs. Jacques Heath (Lily May Peel) Futrelle
4           0       3                     Mr. William Henry Allen
..        ...     ...                                               ...
882         0       2                       Rev. Juozas Montvila
883         1       1                Miss. Margaret Edith Graham
884         0       3              Miss. Catherine Helen Johnston
885         1       1                       Mr. Karl Howell Behr
886         0       3                         Mr. Patrick Dooley

        Sex   Age  Siblings/Spouses Aboard  Parents/Children Aboard     Fare
0      male  22.0                        1                        0   7.2500
1    female  38.0                        1                        0  71.2833
2    female  26.0                        0                        0   7.9250
3    female  35.0                        1                        0  53.1000
4      male  35.0                        0                        0   8.0500
..      ...   ...                      ...                      ...      ...
882    male  27.0                        0                        0  13.0000
883  female  19.0                        0                        0  30.0000
884  female   7.0                        1                        2  23.4500
885    male  26.0                        0                        0  30.0000
886    male  32.0                        0                        0   7.7500

[887 rows x 8 columns]
```

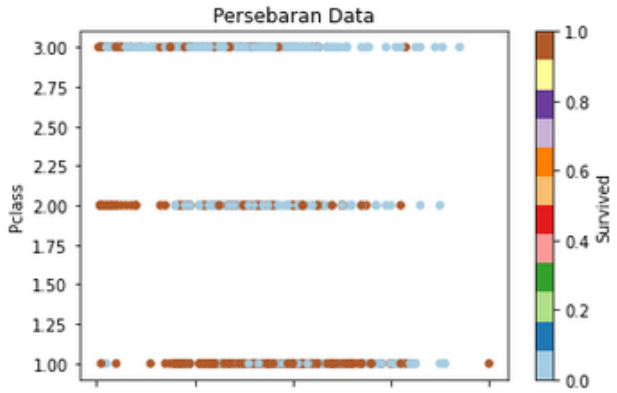
In [5]:
```
#mengambil data pada kolom tertentu
data1 = data_nama.loc[:,['Age','Pclass','Survived']]
print(data1)
```

```
      Age  Pclass  Survived
0    22.0       3         0
1    38.0       1         1
2    26.0       3         1
3    35.0       1         1
4    35.0       3         0
..    ...     ...       ...
882  27.0       2         0
883  19.0       1         1
884   7.0       3         0
885  26.0       1         1
886  32.0       3         0

[887 rows x 3 columns]
```

In [6]:
```
#memvisualisasikan data titanic
data2 = data_nama[['Age', 'Pclass', 'Survived']]
data2.plot(title='Persebaran Data', x='Age', y='Pclass', kind='scatter', c='Survived',
colormap='Paired')
```

Out[6]:
```
<AxesSubplot:title={'center':'Persebaran Data'}, xlabel='Age', ylabel='Pclass'>
```



In [7]:
```
#memanipulasi data jumlah penumpang berdasarkan group Pclass
data3 = data_nama[['Name', 'Sex', 'Age', 'Pclass', 'Fare']]
penumpang=data3.groupby('Pclass')['Name'].nunique()
print('Jumlah Penumpang:\n', penumpang)
```

```
Jumlah Penumpang:
 Pclass
1    216
2    184
3    487
Name: Name, dtype: int64
```

In [8]:
```
#memfilter data penumpang yang selamat berdasarkan pclass
data4 = data_nama[['Name', 'Sex', 'Age', 'Pclass', 'Fare']]
notsurvivedpassanger=data4['Pclass'].loc[data_nama['Survived']==0]
print('Penumpang yang tidak survived:\n', notsurvivedpassanger.value_counts())
survivedpassanger=data4['Pclass'].loc[data_nama['Survived']==1]
print('\nPenumpang yang survived:\n', survivedpassanger.value_counts())
```

```
Penumpang yang tidak survived:
 3    368
2     97
1     80
Name: Pclass, dtype: int64

Penumpang yang survived:
 1    136
3    119
2     87
Name: Pclass, dtype: int64
```

Lathan 2

In [10]:
```
data5 = data_nama[['Name', 'Sex', 'Age', 'Pclass', 'Fare']]
malepassanger=data5['Pclass'].loc[data_nama['Sex']=='male']
print('Penumpang laki-laki di setiap Kelas:\n', malepassanger.value_counts())
```

```
Penumpang laki-laki di setiap Kelas:
 3    343
1    122
2    108
Name: Pclass, dtype: int64
```

In [11]:
```
data5 = data_nama[['Name', 'Sex', 'Age', 'Pclass', 'Fare']]
femalepassanger=data5['Pclass'].loc[data_nama['Sex']=='female']
print('Penumpang Perempuan di setiap Kelas:\n', femalepassanger.value_counts())
```

```
Penumpang Perempuan di setiap Kelas:
 3    144
1     94
2     76
Name: Pclass, dtype: int64
```

In [12]:
```
data6 = data_nama[['Name', 'Sex', 'Age', 'Pclass', 'Fare']]
survivedpassanger=data6['Sex'].loc[data_nama['Survived']==1]
print('Penumpang yang Selamat berdasar Kelamin:\n', survivedpassanger.value_counts())
unsurvivedpassanger=data6['Sex'].loc[data_nama['Survived']==0]
print('Penumpang yang Tidak Selamat berdasar Kelamin:\n', unsurvivedpassanger.value_counts())
```

```
Penumpang yang Selamat berdasar Kelamin:
 female    233
male      109
Name: Sex, dtype: int64
Penumpang yang Tidak Selamat berdasar Kelamin:
 male      464
female     81
Name: Sex, dtype: int64
```