In [19]:
```python
#Open the dataframe

import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

In [45]:
```python
df=pd.read_csv('/Users/Veronica/Documents/DSC680/Portfolio Projects/Data
Project 2 - Happiness/HappinessReport.csv')
```

```
In [46]: print(df)
```

	RANK	Country	Score	Dystopia	GDP per capita	Social support
0	1	Finland	7.821	2.518	1.892	1.258
1	2	Denmark	7.636	2.226	1.953	1.243
2	3	Iceland	7.557	2.320	1.936	1.320
3	4	Switzerland	7.512	2.153	2.026	1.226
4	5	Netherlands	7.415	2.137	1.945	1.206
5	6	Luxembourg*	7.404	2.042	2.209	1.155
6	7	Sweden	7.384	2.003	1.920	1.204
7	8	Norway	7.365	1.925	1.997	1.239
8	9	Israel	7.364	2.634	1.826	1.221
9	10	New Zealand	7.200	1.954	1.852	1.235
10	11	Austria	7.163	2.148	1.931	1.165
11	12	Australia	7.162	2.011	1.900	1.203
12	13	Ireland	7.041	1.743	2.129	1.166
13	14	Germany	7.034	2.142	1.924	1.088
14	15	Canada	7.025	1.924	1.886	1.188

	Healthy life expectancy	Freedom to make life choices	Generosity
0	0.775	0.736	0.109
1	0.777	0.719	0.188
2	0.803	0.718	0.270
3	0.822	0.677	0.147
4	0.787	0.651	0.271
5	0.790	0.700	0.120
6	0.803	0.724	0.218
7	0.786	0.728	0.217
8	0.818	0.568	0.155
9	0.752	0.680	0.245
10	0.774	0.623	0.193
11	0.772	0.676	0.258
12	0.779	0.627	0.190
13	0.776	0.585	0.163
14	0.783	0.659	0.217

|	Perceptions of corruption
0	0.534
1	0.532
2	0.191
3	0.461
4	0.419
5	0.388
6	0.512
7	0.474
8	0.143
9	0.483
10	0.329
11	0.341
12	0.408
13	0.358
14	0.368

In [47]: `df.info()`

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 15 entries, 0 to 14
Data columns (total 10 columns):
 #   Column                    Non-Null Count  Dtype
---  ------                    --------------  -----
 0   RANK                      15 non-null     int64
 1   Country                   15 non-null     object
 2   Score                     15 non-null     float64
 3   Dystopia                  15 non-null     float64
 4   GDP per capita            15 non-null     float64
 5   Social support            15 non-null     float64
 6   Healthy life expectancy   15 non-null     float64
 7   Freedom to make life choices  15 non-null  float64
 8   Generosity                15 non-null     float64
 9   Perceptions of corruption 15 non-null     float64
dtypes: float64(8), int64(1), object(1)
memory usage: 1.3+ KB
```

In [62]:
```
plt.figure(figsize=(10,8))
sns.heatmap(df.corr(),cmap='BuPu',annot=True);
```
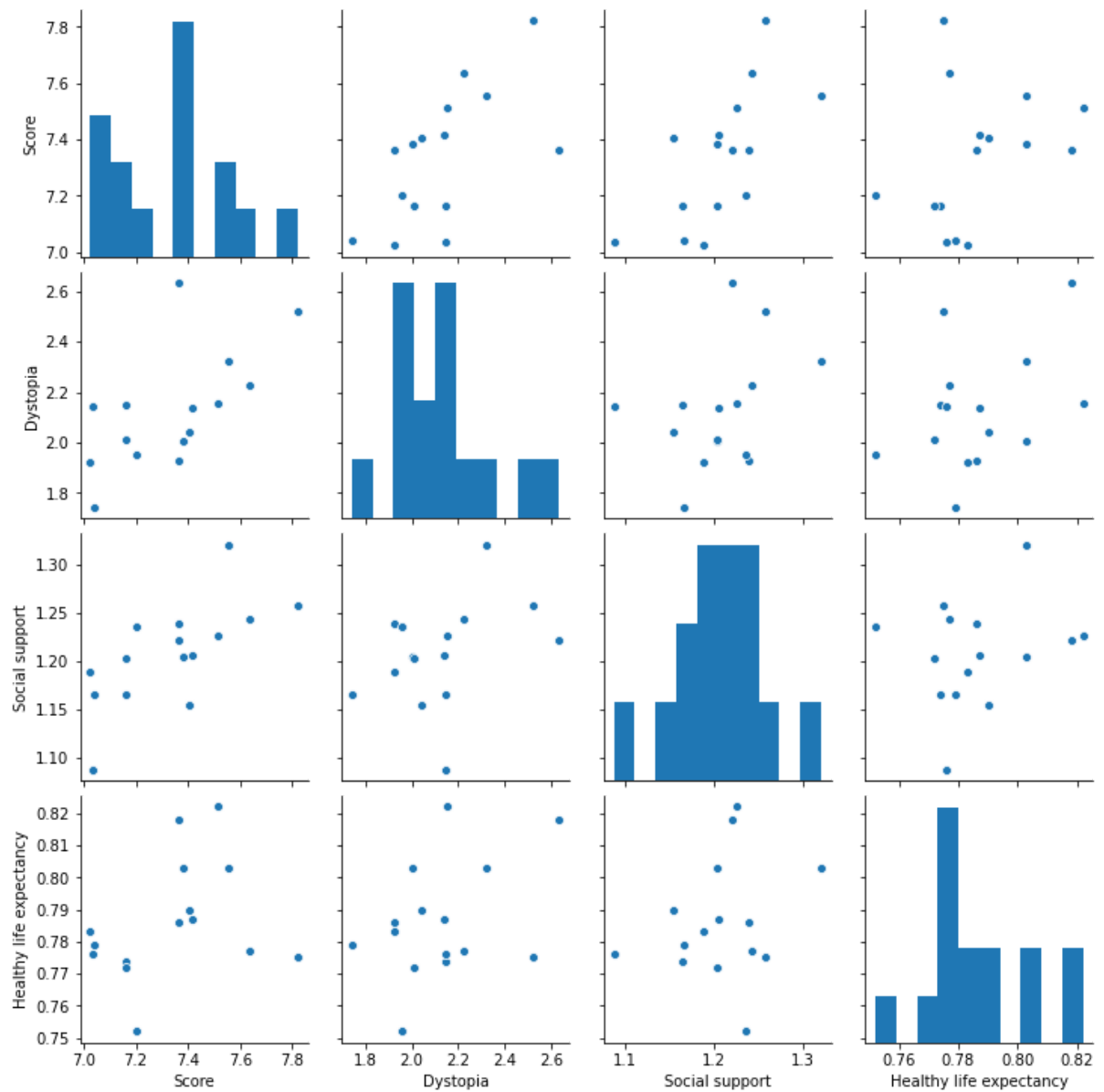
```python
In [83]: plt.figure(figsize=(8,12))

         heatmap=sns.heatmap(df.corr()[['Score']].sort_values(by='Score', ascendi
         ng=False), vmin=-1, vmax=1,annot=True, cmap='rocket_r')
```
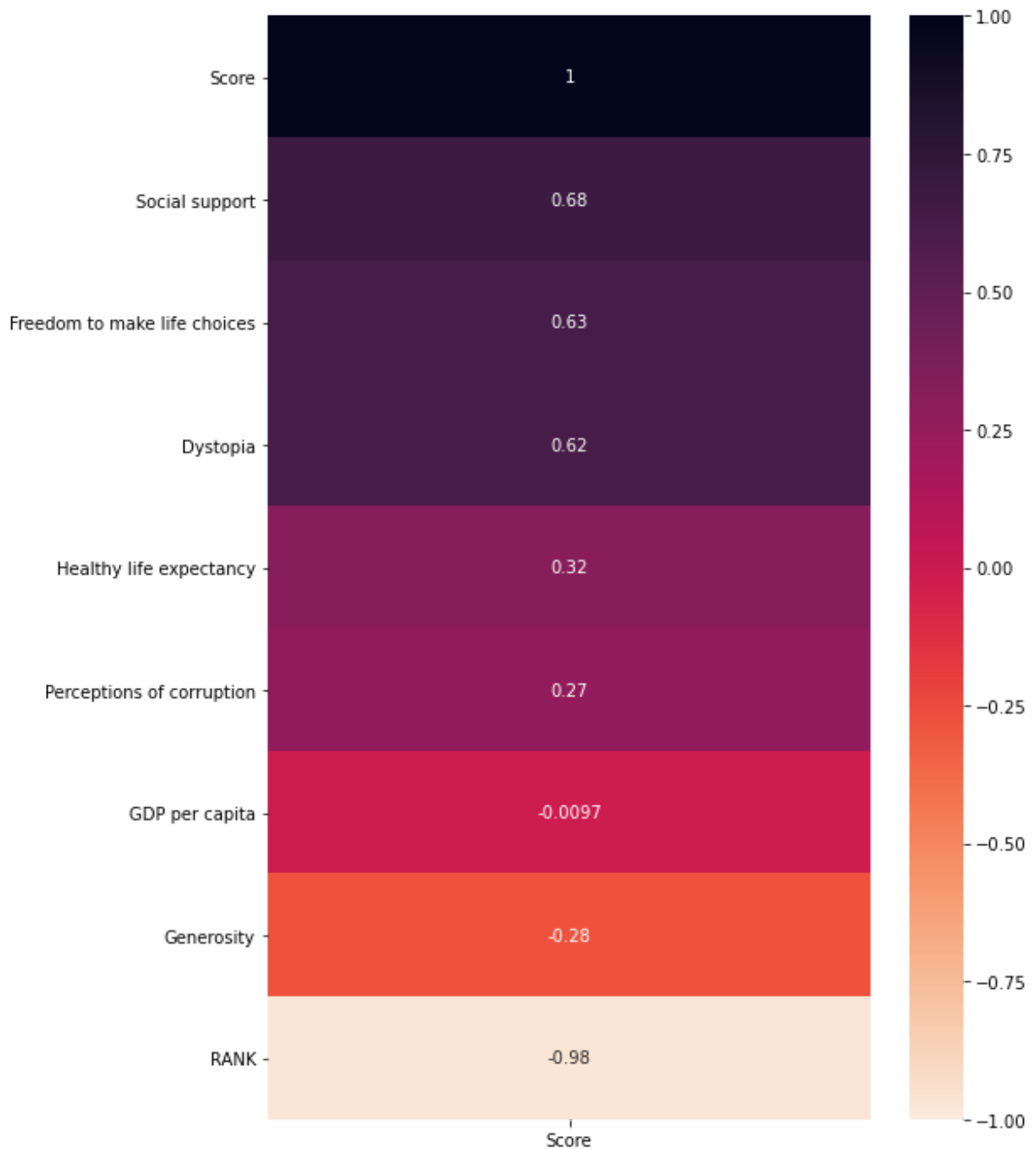
```
In [81]: sns.pairplot(df.iloc[:,[2,3,5,6]])
         plt.show
```

Out[81]: `<function matplotlib.pyplot.show(*args, **kw)>`


```
In [ ]:
```