In [14]:
```
import pandas as pd
import seaborn as sns

import numpy as np
```

In [15]:
```
df1=pd.read_csv("Iris.csv")
```

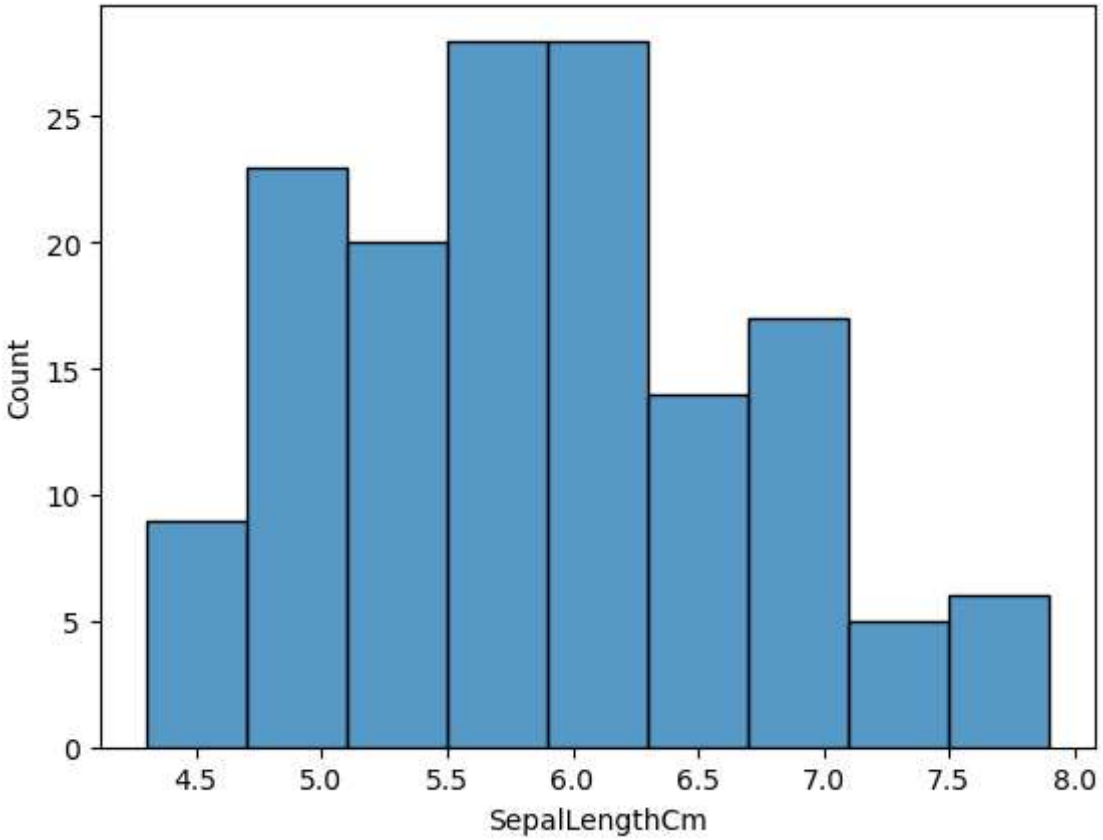
In [16]:
```
df1.head()
```

Out[16]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

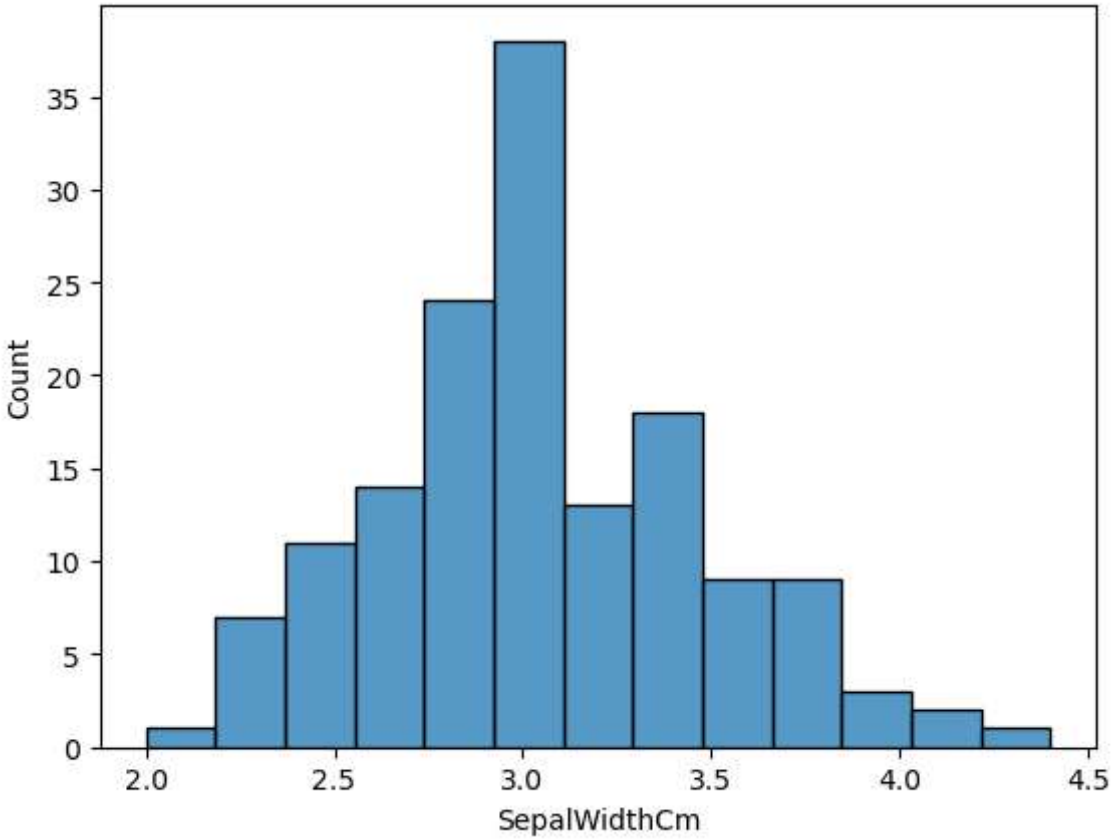
In [17]:
```
sns.histplot(df1.SepalLengthCm)
```

Out[17]:
```
<Axes: xlabel='SepalLengthCm', ylabel='Count'>
```



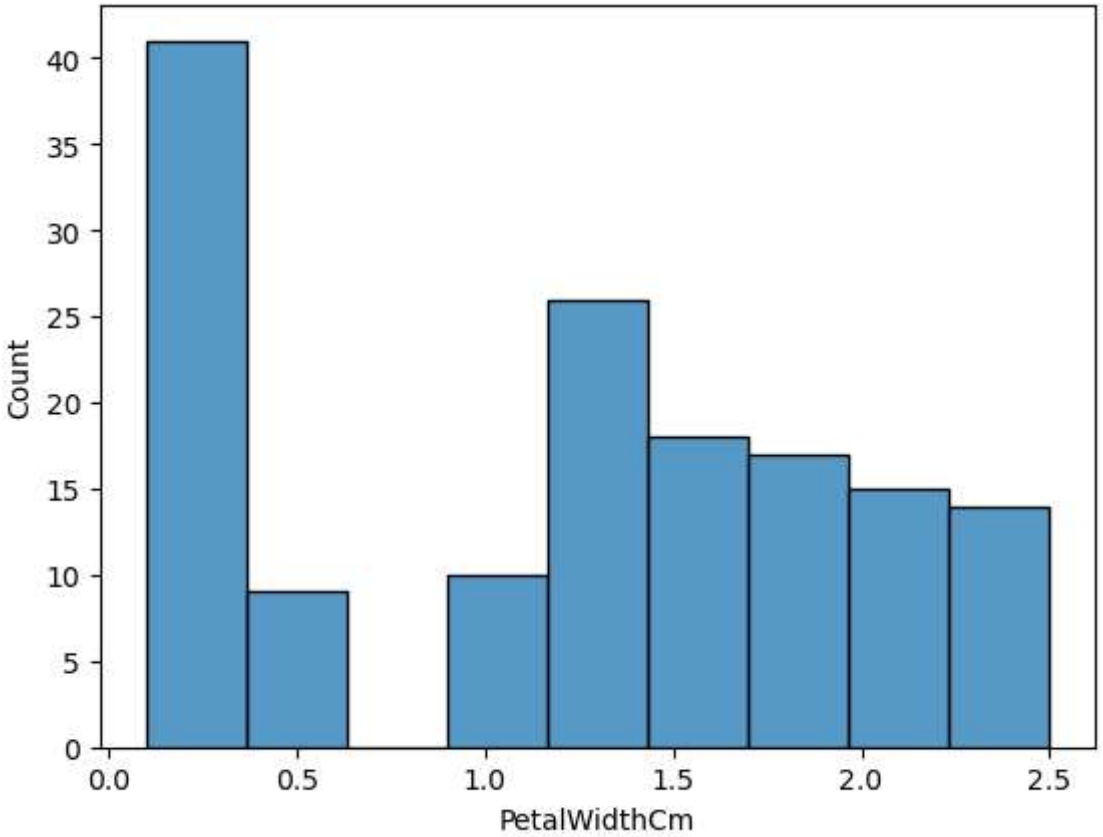
In [18]:
```
sns.histplot(df1.SepalWidthCm)
```

Out[18]:
```
<Axes: xlabel='SepalWidthCm', ylabel='Count'>
```



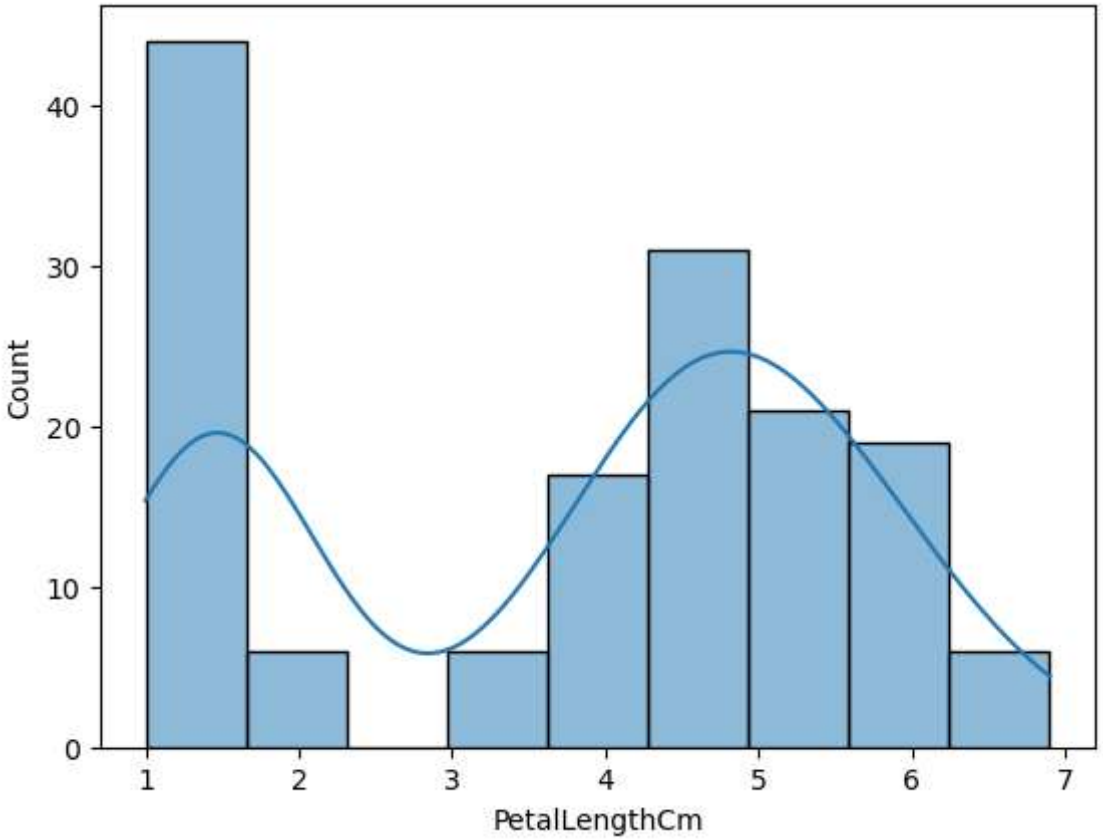
In [19]:
```
sns.histplot(df1.PetalWidthCm)
```

Out[19]:
```
<Axes: xlabel='PetalWidthCm', ylabel='Count'>
```



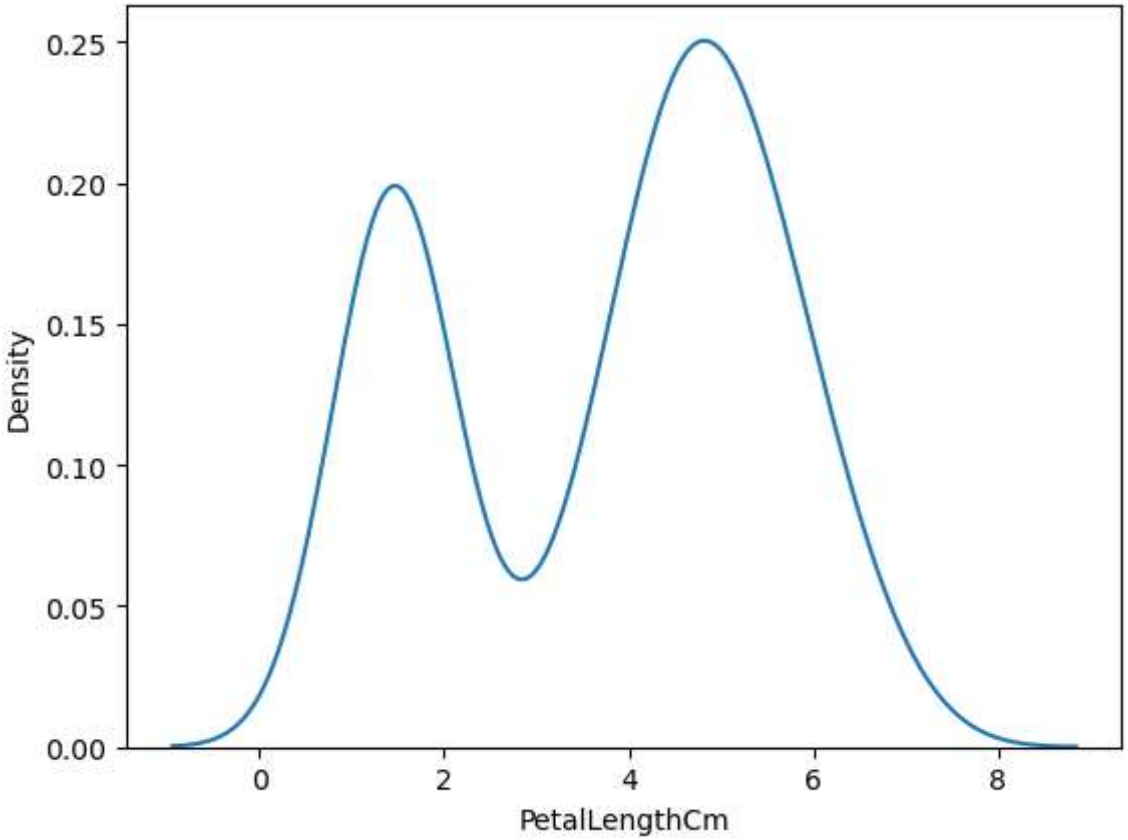
In [53]:
```
sns.histplot(df1.PetalLengthCm,kde=True)
```

Out[53]:
```
<Axes: xlabel='PetalLengthCm', ylabel='Count'>
```



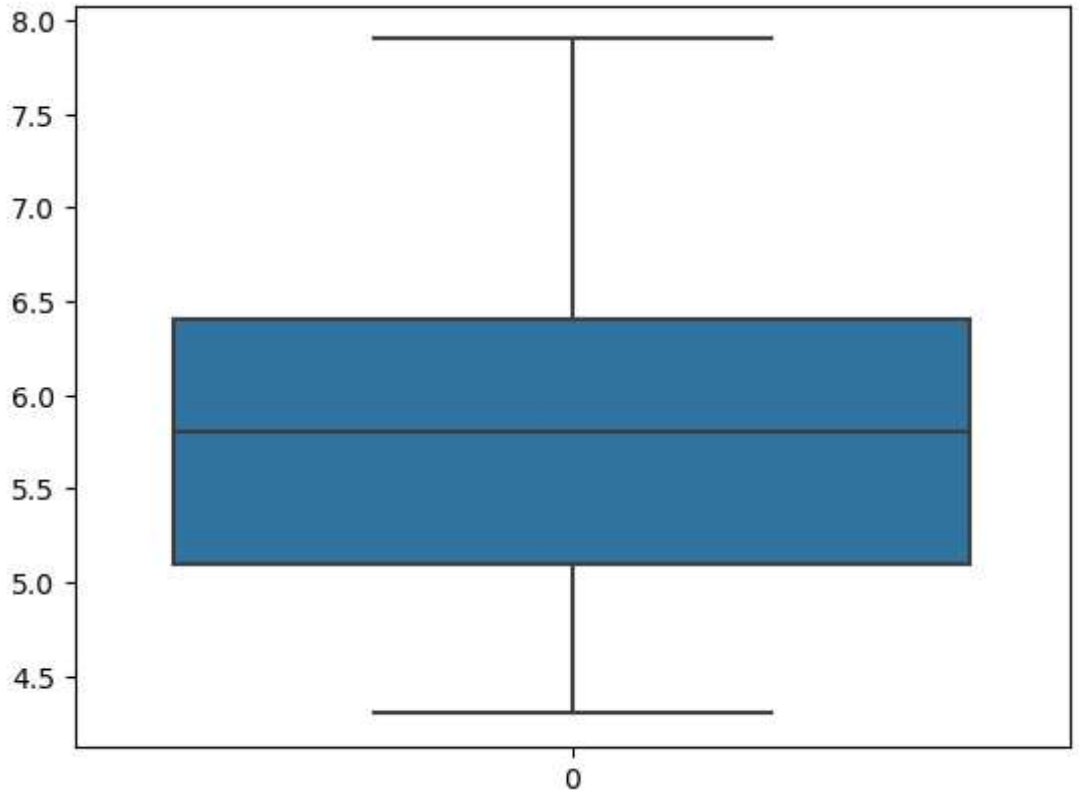
In [54]:
```
sns.kdeplot(df1['PetalLengthCm'])
```

Out[54]:
```
<Axes: xlabel='PetalLengthCm', ylabel='Density'>
```



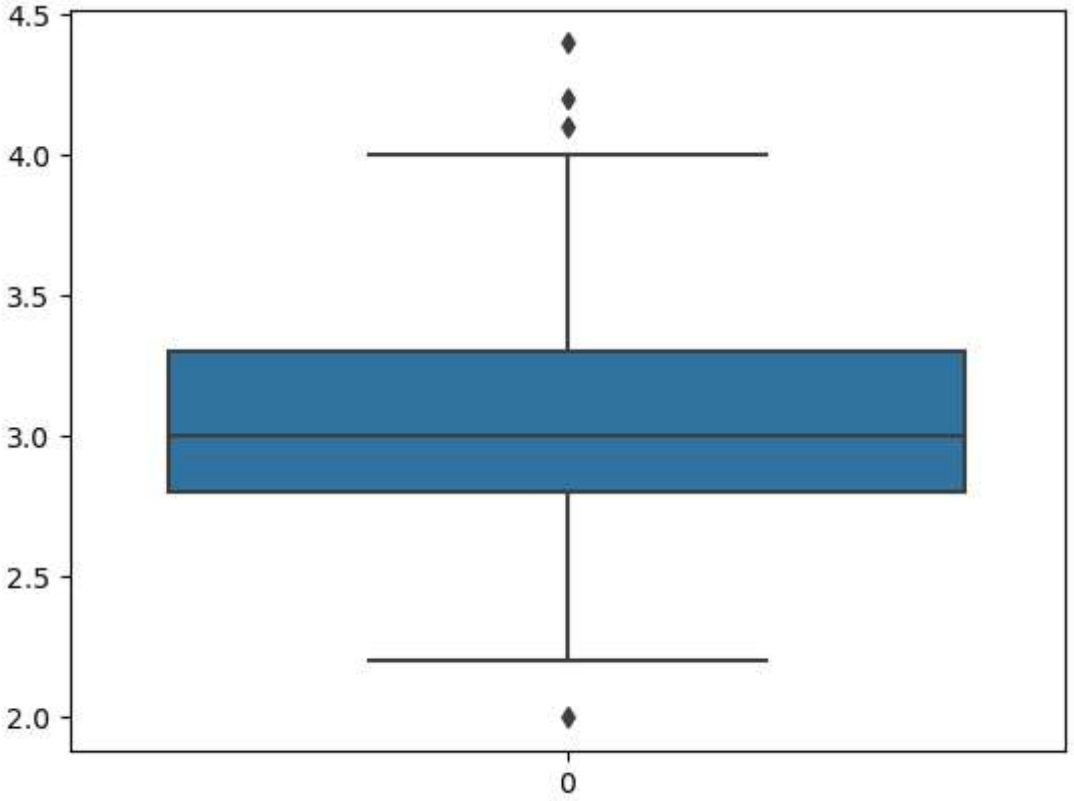
In [21]:
```
sns.boxplot(df1['SepalLengthCm'])
```

Out[21]:
```
<Axes: >
```



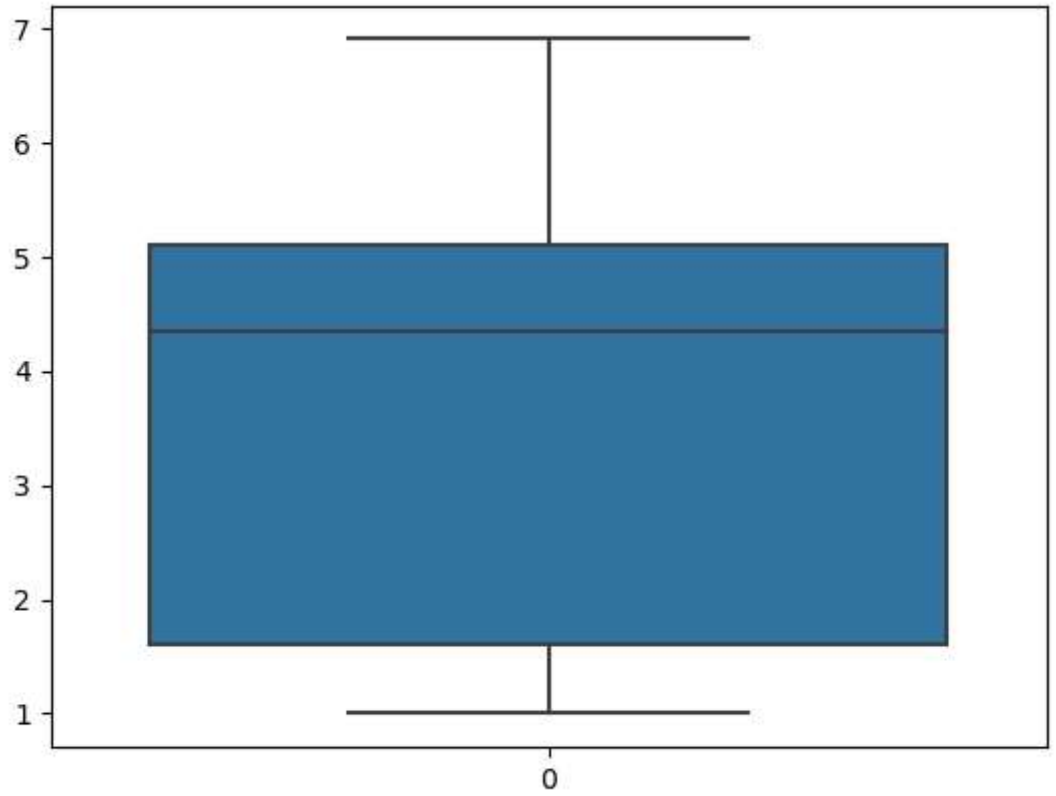
In [22]:
```
sns.boxplot(df1['SepalWidthCm'])
```

Out[22]:
```
<Axes: >
```



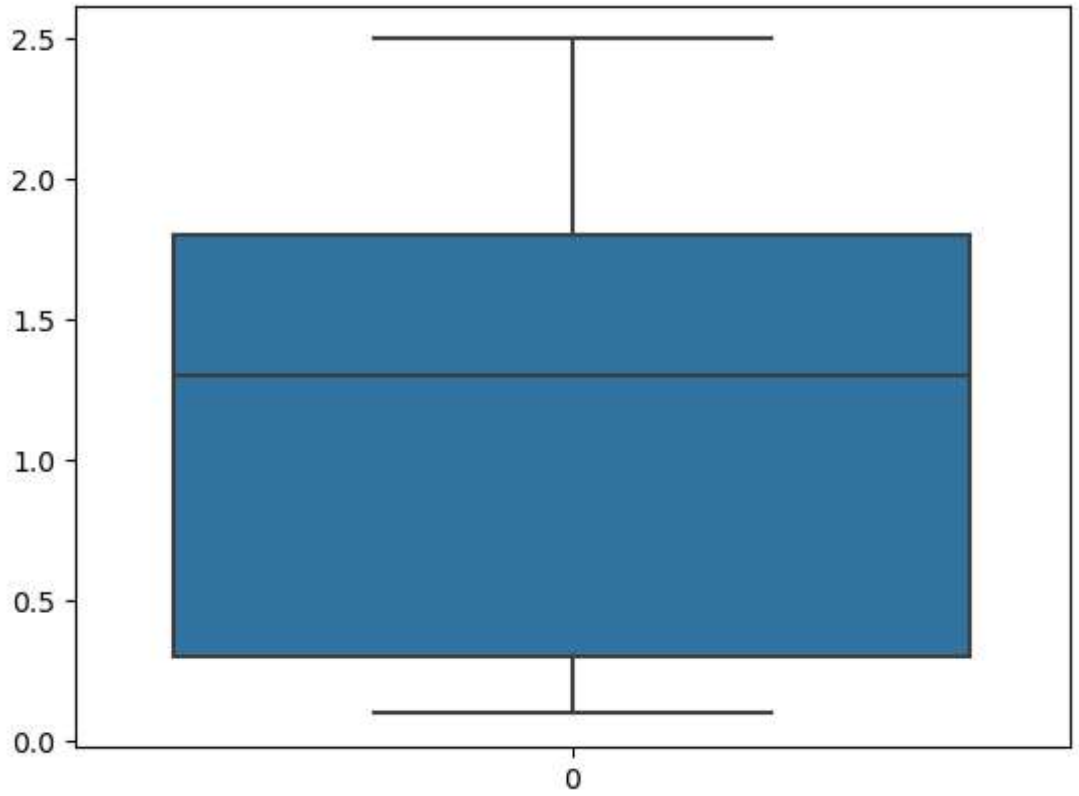
In [23]:
```
sns.boxplot(df1['PetalLengthCm'])
```

Out[23]:
```
<Axes: >
```



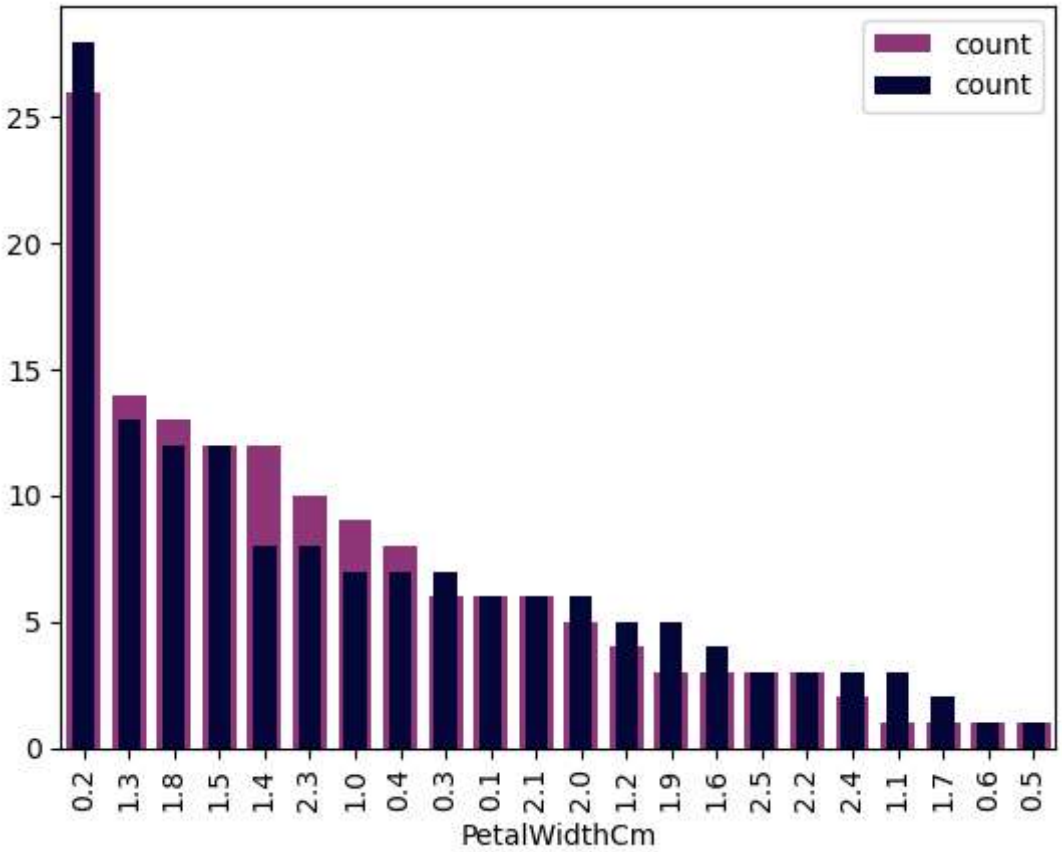
In [24]:
```
sns.boxplot(df1['PetalWidthCm'])
```

Out[24]: <Axes: >



In [43]:
```
ax = df1['SepalWidthCm'].value_counts().plot(kind='bar', color='#720455', width=.75, legend=True, alpha=0.8)
df1['PetalWidthCm'].value_counts().plot(kind='bar', color='#030637', width=.5, alpha=1, legend=True)
```

Out[43]:
```
<Axes: xlabel='PetalWidthCm'>
```

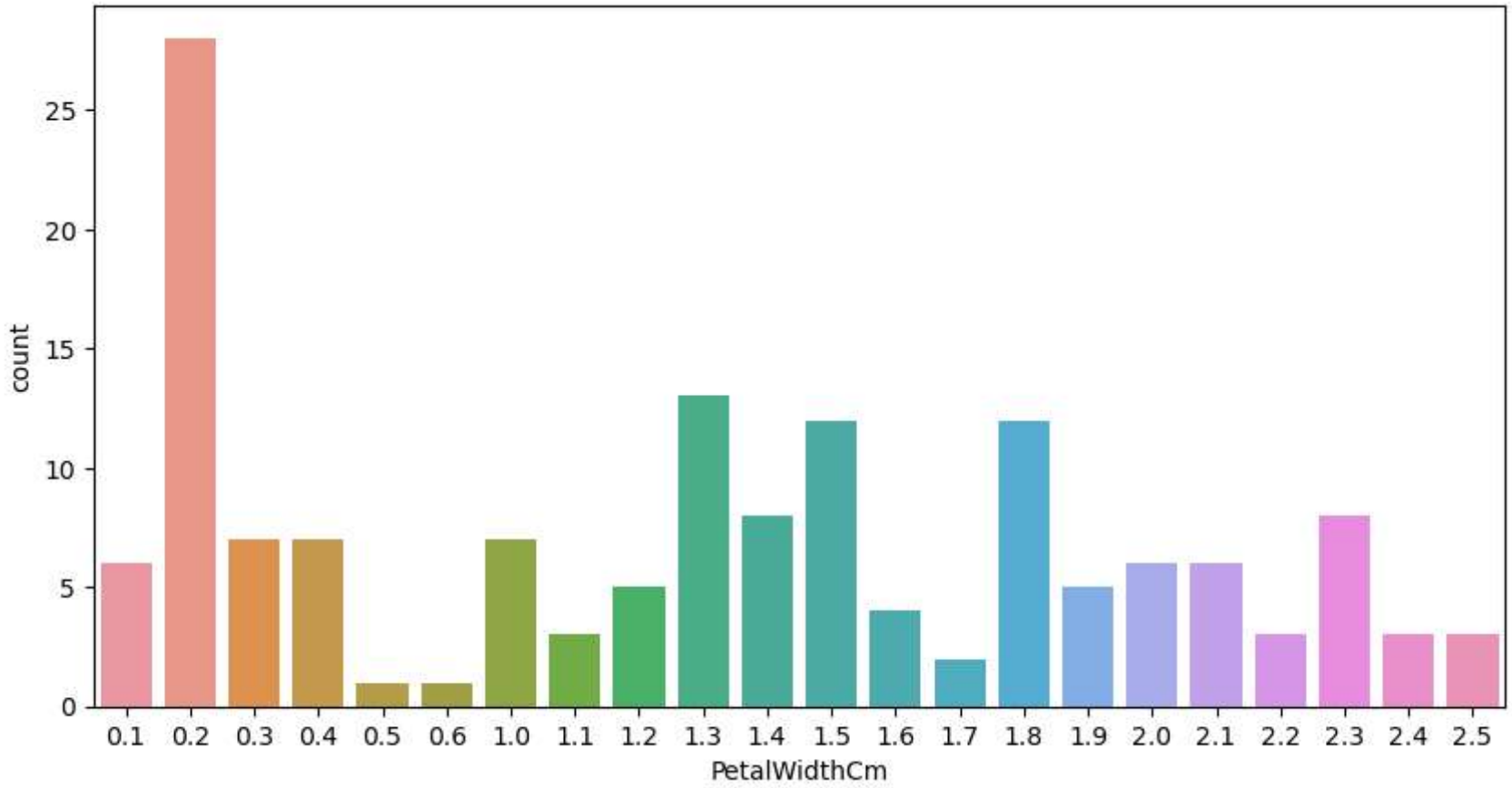


In [62]:
```
df1['PetalWidthCm'].value_counts()
```

Out[62]:
```
PetalWidthCm
0.2    28
1.3    13
1.8    12
1.5    12
1.4     8
2.3     8
1.0     7
0.4     7
0.3     7
0.1     6
2.1     6
2.0     6
1.2     5
1.9     5
1.6     4
2.5     3
2.2     3
2.4     3
1.1     3
1.7     2
0.6     1
0.5     1
Name: count, dtype: int64
```

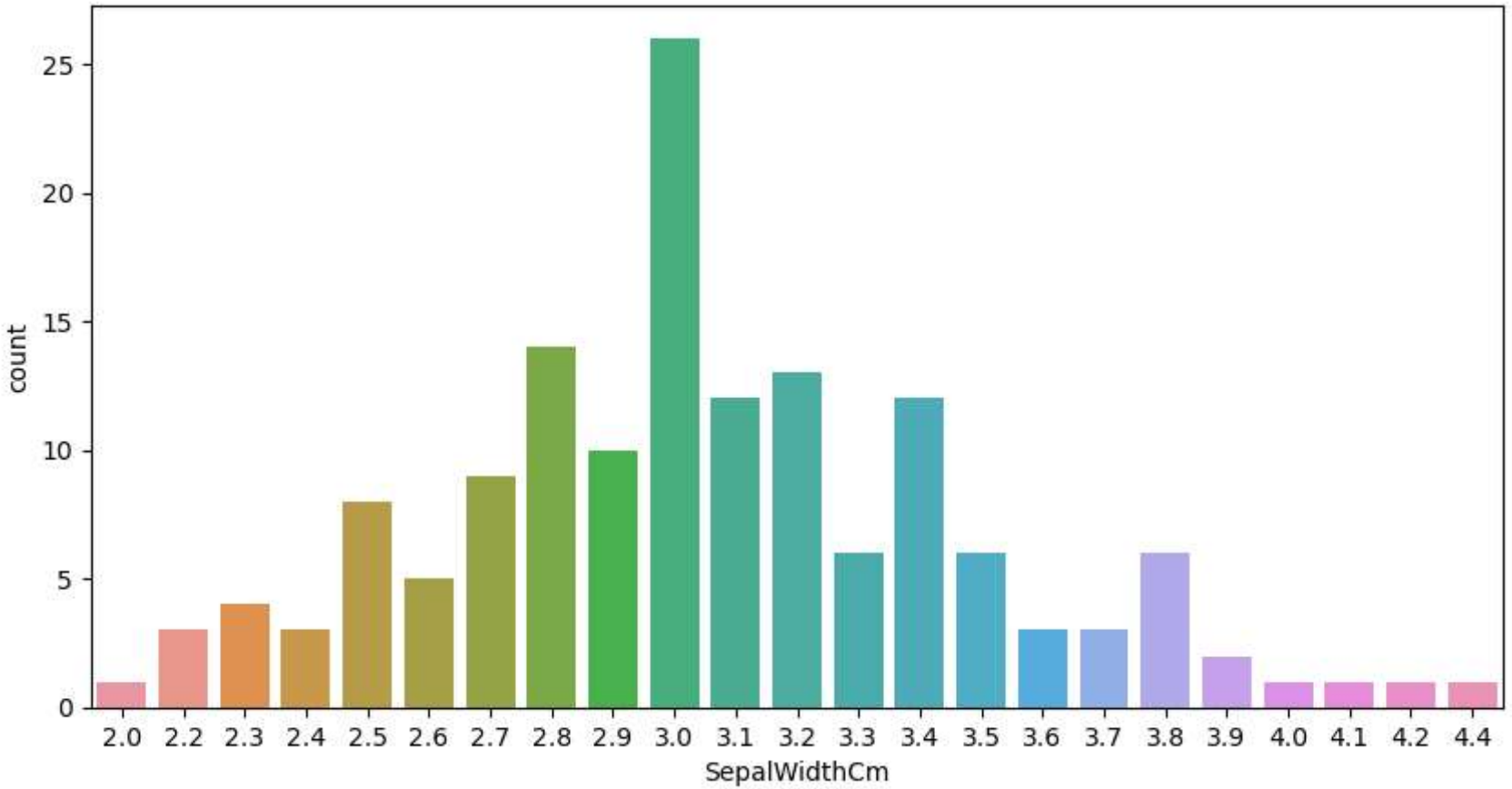
In [70]:
```
plt.figure(figsize = (10,5))
sns.countplot(data = df1,x = 'PetalWidthCm')
```

Out[70]:
```
<Axes: xlabel='PetalWidthCm', ylabel='count'>
```



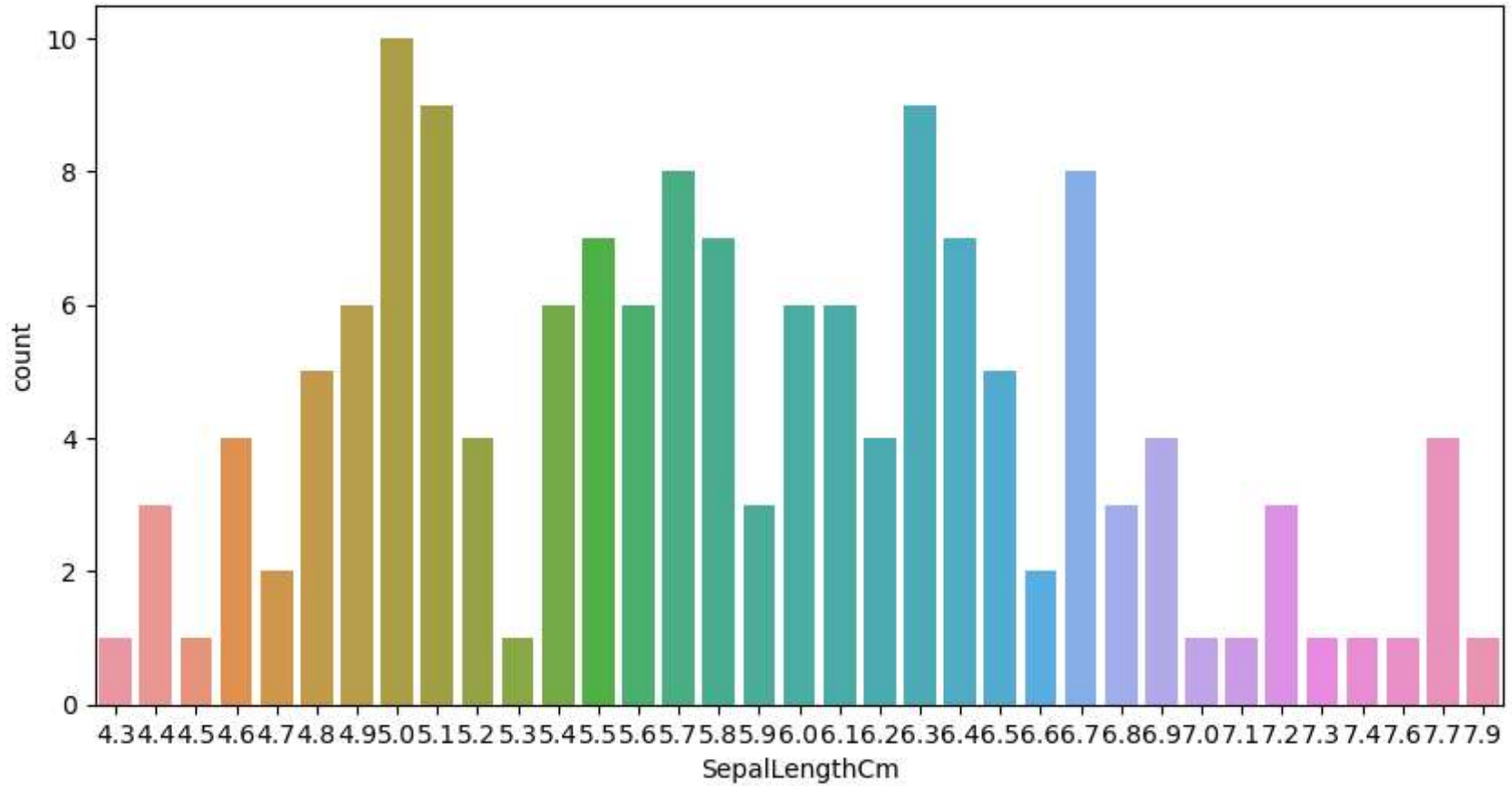
In [72]:
```
plt.figure(figsize = (10,5))
sns.countplot(data = df1,x = 'SepalWidthCm')
```

Out[72]:
```
<Axes: xlabel='SepalWidthCm', ylabel='count'>
```



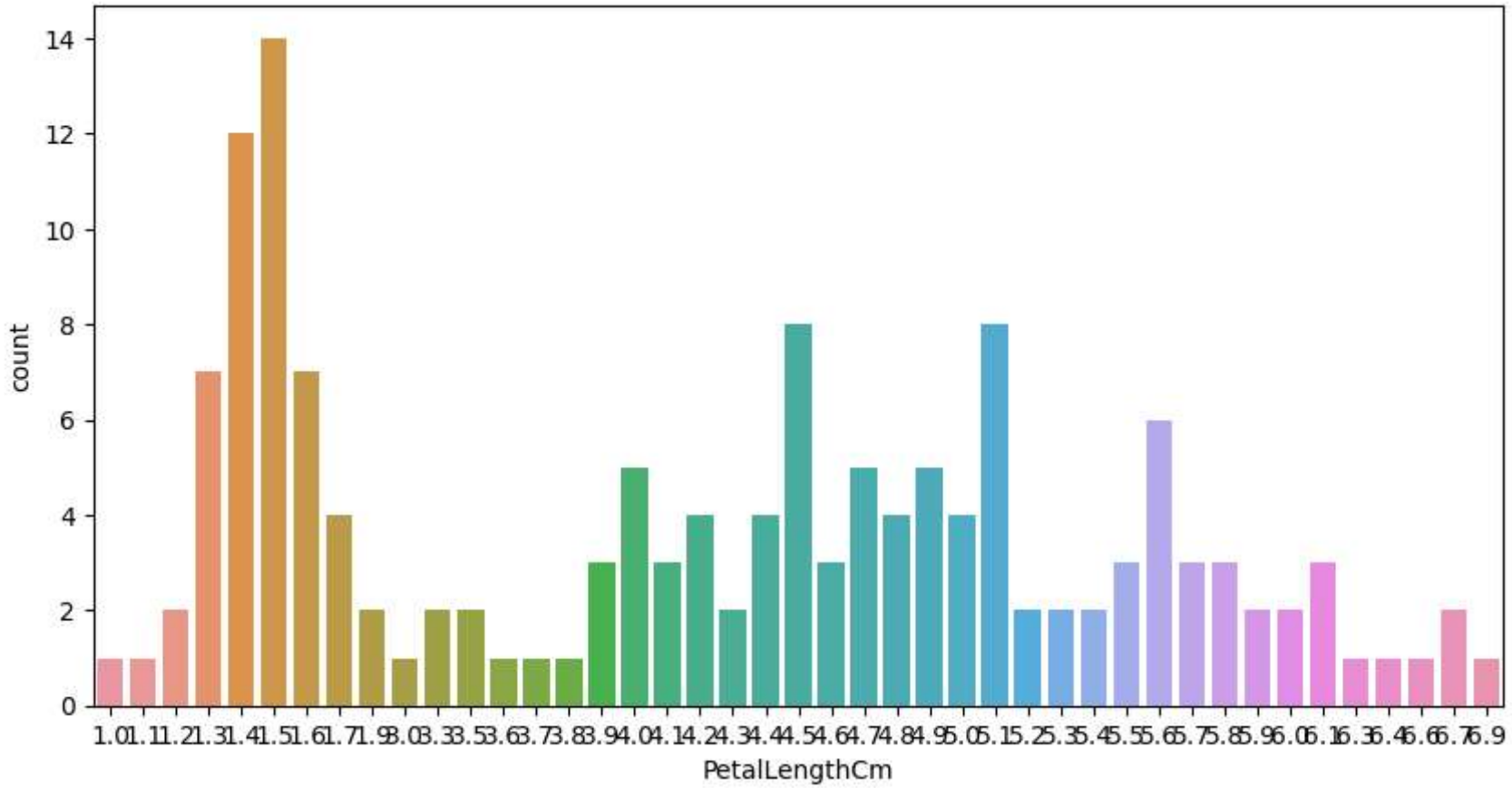
In [73]:
```
plt.figure(figsize = (10,5))
sns.countplot(data = df1,x = 'SepalLengthCm')
```

Out[73]:
```
<Axes: xlabel='SepalLengthCm', ylabel='count'>
```



In [74]:
```
plt.figure(figsize = (10,5))
sns.countplot(data = df1,x = 'PetalLengthCm')
```

Out[74]:
```
<Axes: xlabel='PetalLengthCm', ylabel='count'>
```


14
12
10
8
6
4
2
0
count
1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.9 3.0 3.3 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0 6.1 6.3 6.4 6.6 6.7 6.9
PetalLengthCm

In [ ]: