In [2]:

```
import seaborn as sns
import pandas as pd
```

In [3]:

```
overs=[1,2,3,4,5]
runs=[12,12,9,14,17]
df=pd.DataFrame({"Overs":overs,"Runs":runs})
df
```

Out[3]:

	Overs	Runs
0	1	12
1	2	12
2	3	9
3	4	14
4	5	17

In [4]:

```
df2=pd.DataFrame({"Over":[1,2,3,4,5],
                  "Run":[12,12,9,14,17]})
```

In [5]:

```
df2
```

Out[5]:

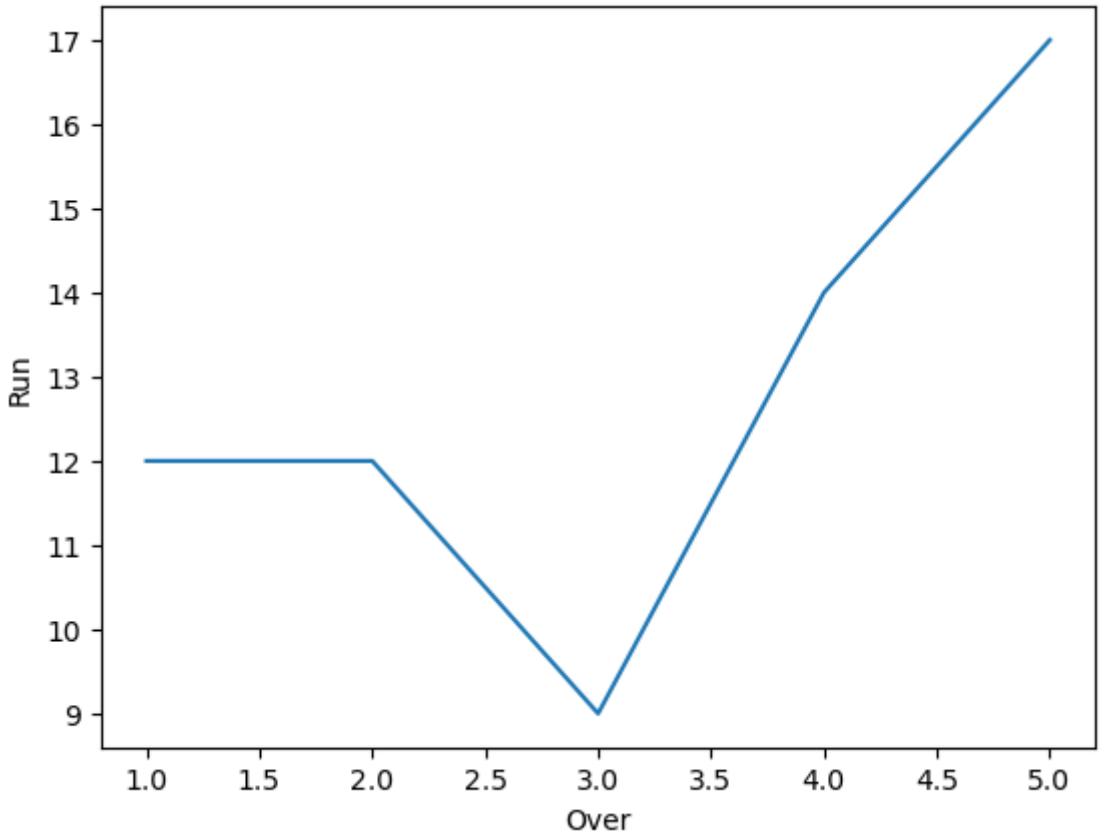
	Over	Run
0	1	12
1	2	12
2	3	9
3	4	14
4	5	17

In [6]:

```
sns.lineplot(x="Over",y="Run",data=df2)
```

Out[6]:

```
<AxesSubplot:xlabel='Over', ylabel='Run'>
```



In [10]:

```
titanic=sns.load_dataset("titanic")
```

In [21]:

```
titanic.head()
```

Out[21]:

age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	a
22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	F
38.0	1	0	71.2833	C	First	woman	False	C	Cherbourg	yes	F
26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	
35.0	1	0	53.1000	S	First	woman	False	C	Southampton	yes	F
35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	

In [23]:

```
df3=titanic[['alive','survived']]
```

In [26]:

```
df4=df3.groupby('alive').count()
df4['No of Persons']=df4['survived']
df4
```

Out[26]:

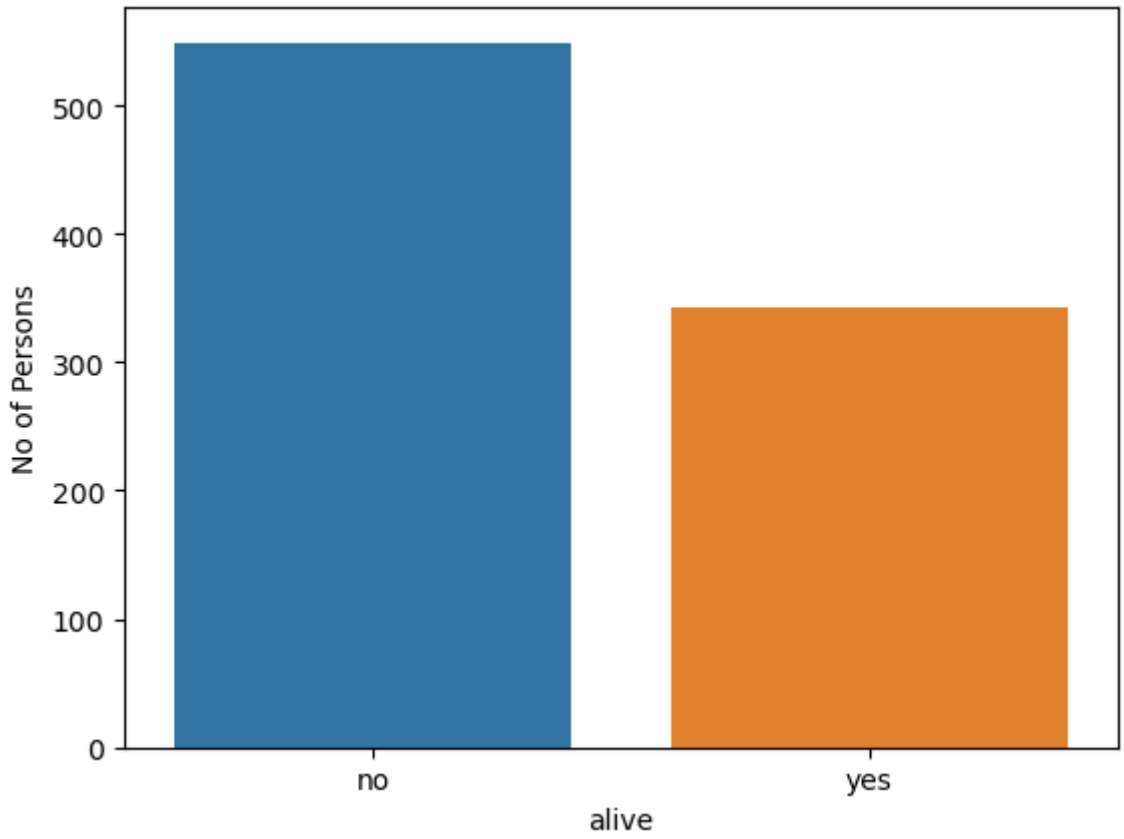
alive	survived	No of Persons
no	549	549
yes	342	342

In [27]:

```
sns.barplot(x=df4.index,y="No of Persons",data=df4)
```

Out[27]:

```
<AxesSubplot:xlabel='alive', ylabel='No of Persons'>
```



In [29]:

```
titanic['class'].unique()
```

Out[29]:

```
['Third', 'First', 'Second']
Categories (3, object): ['First', 'Second', 'Third']
```

In [31]:

```
titanic.isnull().sum()
```

Out[31]:

```
survived         0
pclass           0
sex              0
age            177
sibsp            0
parch            0
fare             0
embarked         2
class            0
who              0
adult_male       0
deck           688
embark_town      2
alive            0
alone            0
dtype: int64
```

In [33]:

```
print(titanic.shape)
tit=titanic.drop('deck',axis=1)
print(tit.shape)
```

```
(891, 15)
(891, 14)
```

In [36]:

```
tit.isnull().sum()
```

Out[36]:

```
survived         0
pclass           0
sex              0
age            177
sibsp            0
parch            0
fare             0
embarked         2
class            0
who              0
adult_male       0
embark_town      2
alive            0
alone            0
dtype: int64
```

In [37]:

```
tit['age'].mean()
```

Out[37]:

```
29.69911764705882
```

In [38]:

```
tit['age']
```

Out[38]:

```
0      22.0
1      38.0
2      26.0
3      35.0
4      35.0
       ...
886    27.0
887    19.0
888     NaN
889    26.0
890    32.0
Name: age, Length: 891, dtype: float64
```

In [44]:

```
tit['age'].fillna(tit['age'].mean(),inplace=True)
```

In [46]:

```
tit.isnull().sum()
```

Out[46]:

```
survived       0
pclass         0
sex            0
age            0
sibsp          0
parch          0
fare           0
embarked       2
class          0
who            0
adult_male     0
embark_town    2
alive          0
alone          0
dtype: int64
```

In [52]:

```
tit['fare'].round(decimals=2)
```

Out[52]:

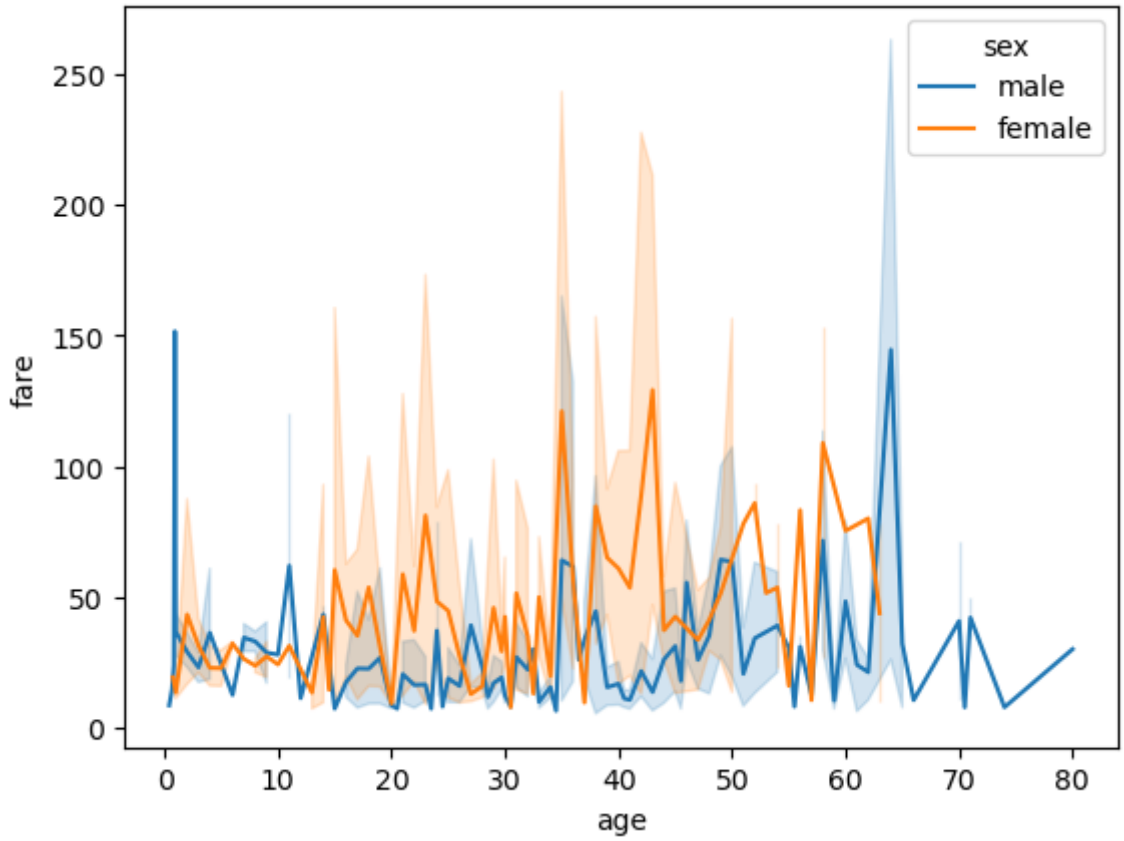
```
0       7.25
1      71.28
2       7.92
3      53.10
4       8.05
       ...
886    13.00
887    30.00
888    23.45
889    30.00
890     7.75
Name: fare, Length: 891, dtype: float64
```

In [54]:

```
sns.lineplot(x="age",y="fare",data=tit,hue="sex")
```

Out[54]:

```
<AxesSubplot:xlabel='age', ylabel='fare'>
```



In [57]:

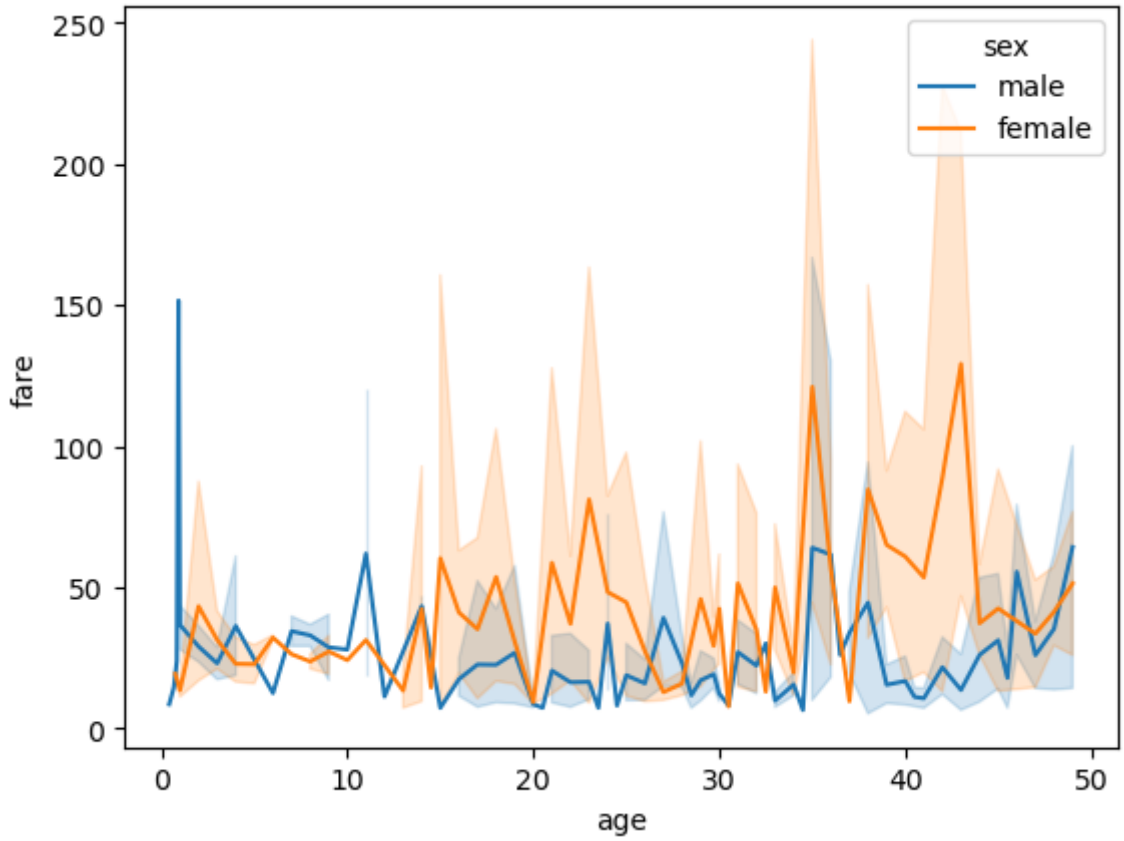
```
t2=tit[tit['age']<50]
```

In [60]:

```
sns.lineplot(x='age',y='fare',data=t2,hue='sex')
```

Out[60]:

```
<AxesSubplot:xlabel='age', ylabel='fare'>
```



In [ ]:

```

```