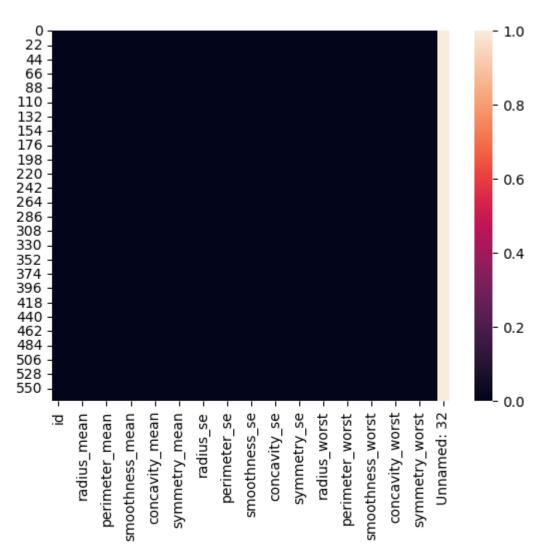
Checking Null values using the heatmap

sns.heatmap(df.isnull())

<Axes: >



from the heatmap we can see that there is a unnamed column who is completly empty So we are going to drop it

Convert the Target Variable to 0s and 1s

```
df['diagnosis'] = [1 if value == 'M' else 0 for value in df.diagnosis]
df['diagnosis']
0
       1
1
       1
2
       1
3
       1
4
       1
564
       1
565
       1
566
       1
       1
567
568
```

Turning into Category Type

Name: diagnosis, Length: 569, dtype: int64

```
df['diagnosis'] = df['diagnosis'].astype('category', copy=False)
df['diagnosis'].value_counts().plot(kind='bar')
plt.show()
```

