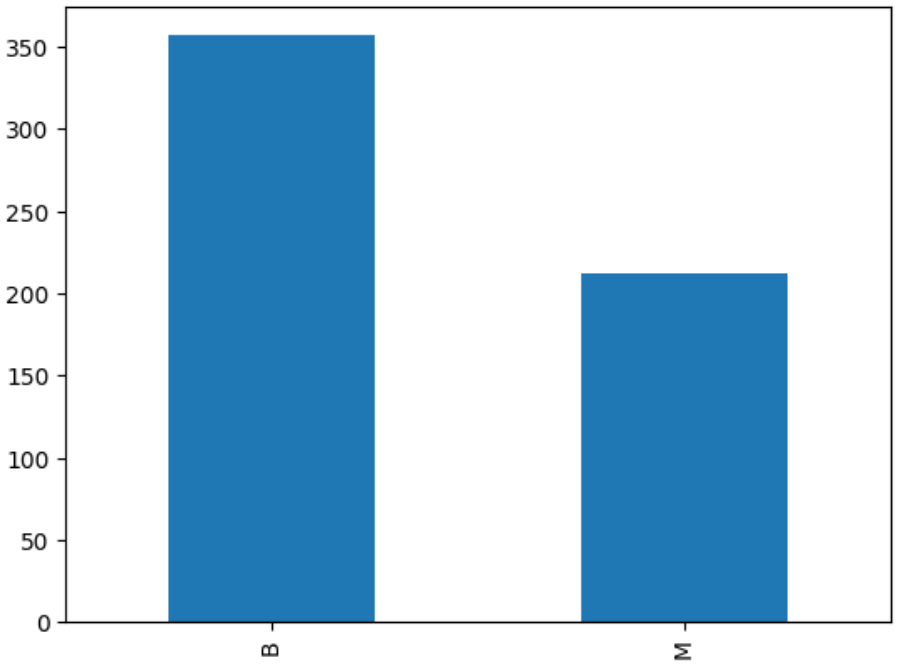
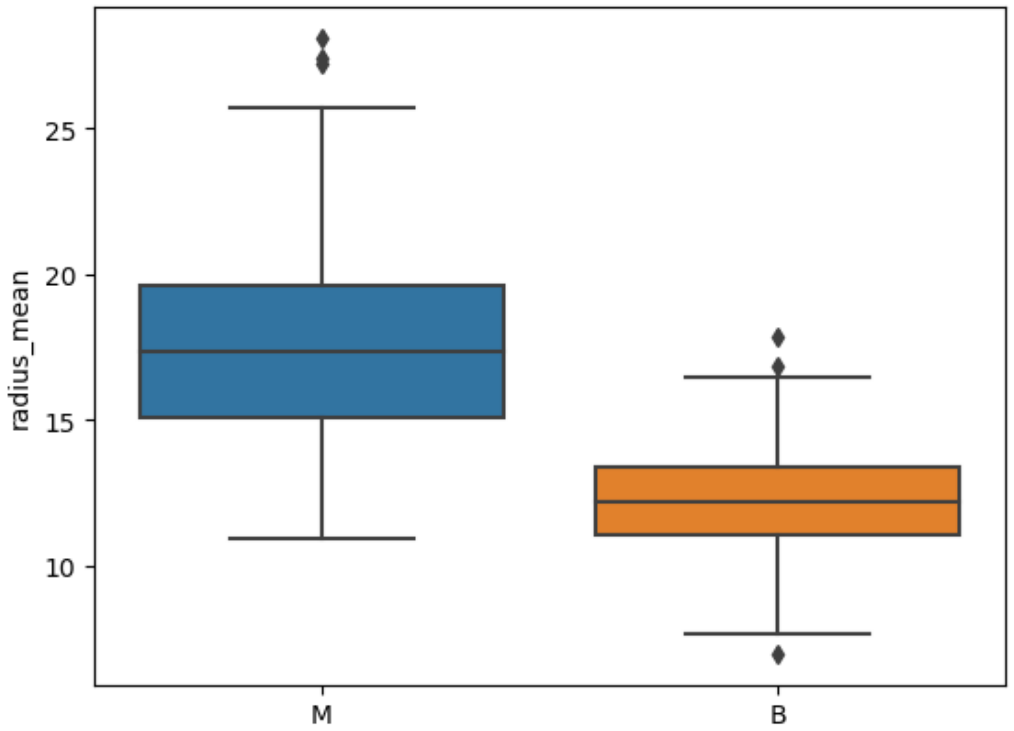
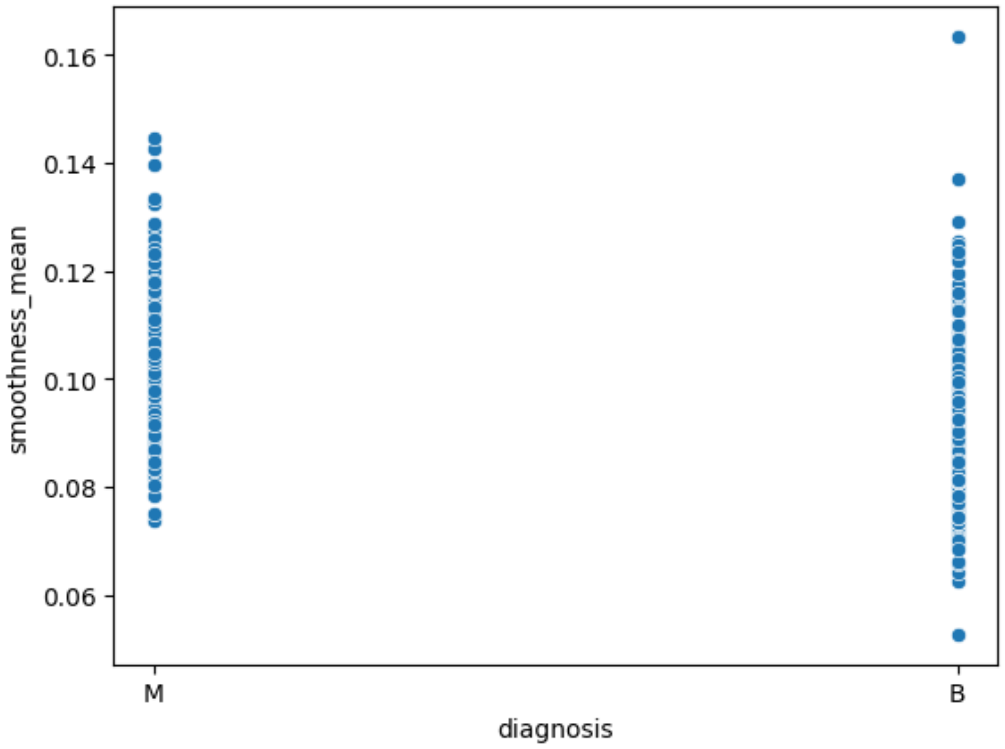
```
#targets distribution
data['diagnosis'].value_counts().plot.bar()
plt.show()
```



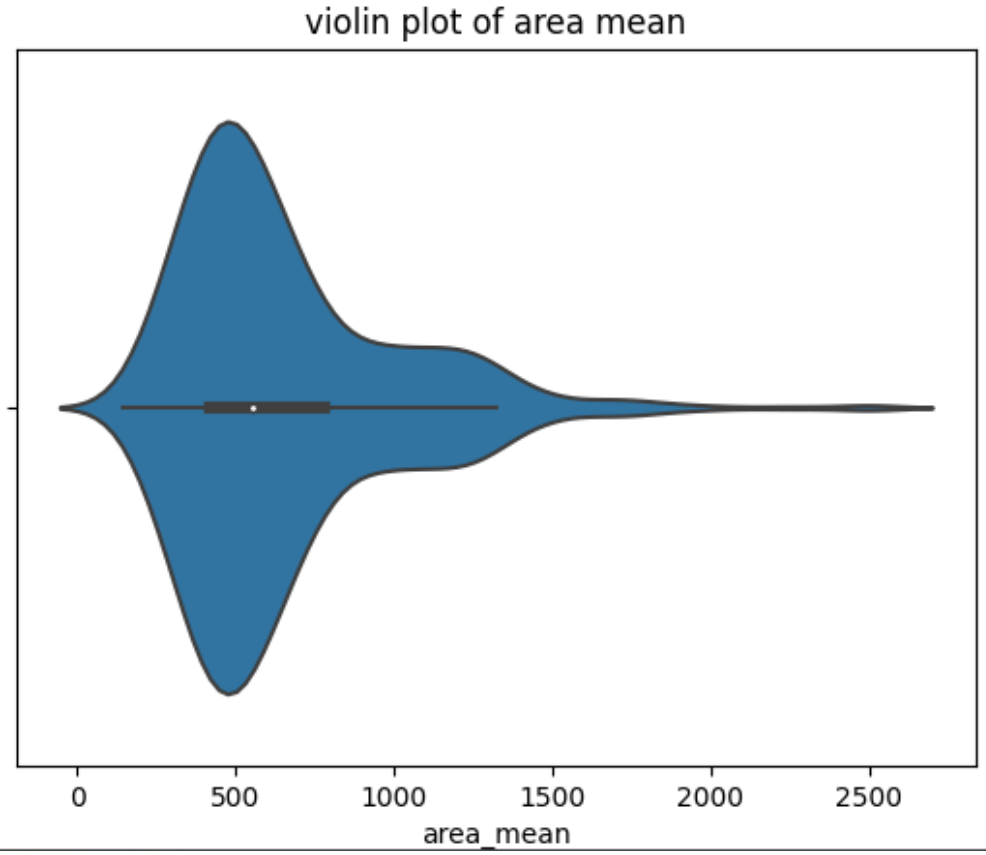

```
sns.boxplot(y='radius_mean',x='diagnosis',
            data=data)
plt.show()
```



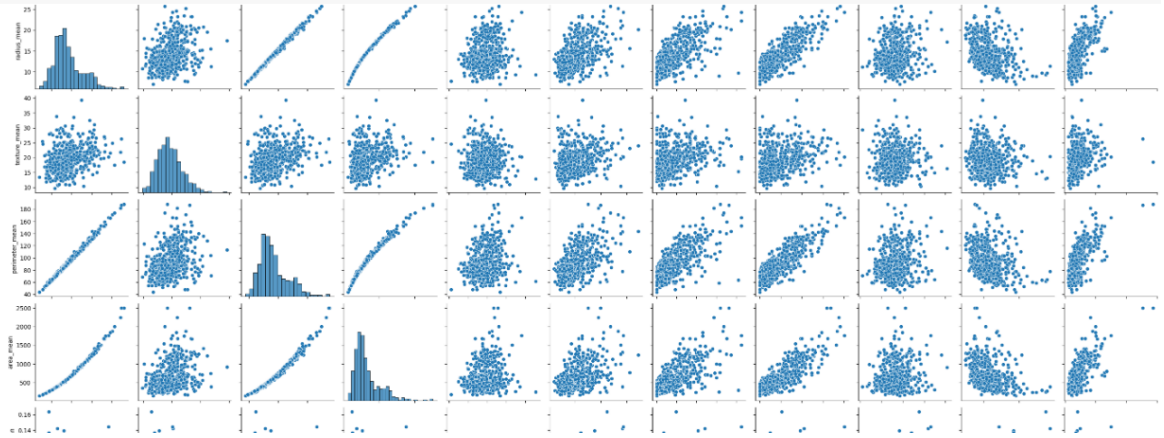
```
sns.scatterplot(y='smoothness_mean',x='diagnosis',data=data)
plt.show()
```



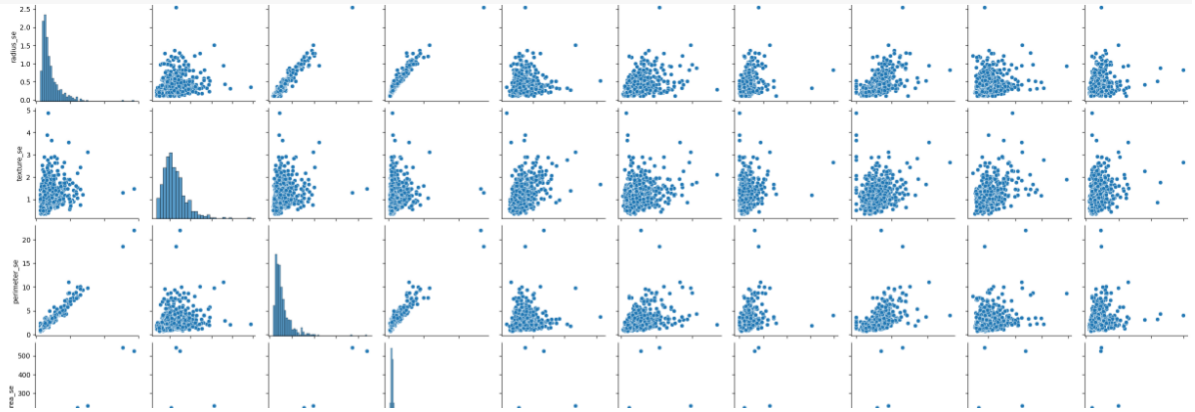
```
sns.violinplot(x='area_mean',data=data)
plt.title('violin plot of area mean')
plt.show()
```




```
sns.pairplot(data=data_mean)
plt.show()
```



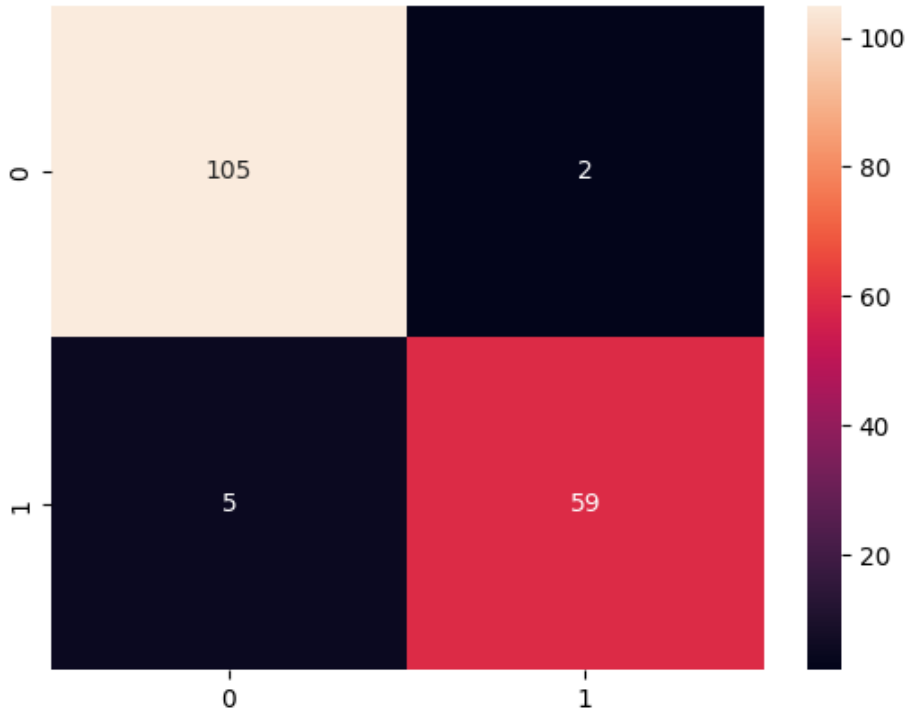
```
#slicing the dataset into se values
data_se = data.iloc[:,11:21]
sns.pairplot(data=data_se)
plt.show()
```




```
#correlation plot
plt.figure(figsize=(20,20))
sns.heatmap(data.corr(),annot=True)
plt.show()
```

```
<ipython-input-57-a714657ce2a8>:3: FutureWarning: The default value of numeric_only in DataFrame.corr is deprecated. In a future version, it will default to Fa
  sns.heatmap(data.corr(),annot=True)
```

```
#confusion matrix
sns.heatmap(confusion_matrix(y_test,preds),annot=True,fmt='g')
plt.show()
```



```
#confusion matrix
sns.heatmap(confusion_matrix_qda,annot=True,fmt='g')
plt.show()
```