Confusion Matrix: [6, 7, 5, 2]

Accuracy: 0.65

Precision: 0.5454545454545454

Recall: 0.75 Sensitivity: 0.75

Specificity: 0.58333333333333334 Missclassification Error: 0.35

[2] df = pd.DataFrame()
 df['refund'] = ['yes', 'no', 'no', 'yes', 'no', 'no', 'yes', 'no', 'no', 'no', 'no']
 df['martial_status'] = ['single', 'married', 'single', 'married', 'divorced', 'married','
 df['taxable_income'] = [125000,100000,70000,120000,95000,60000,220000,85000,75000,90000]
 df['evade'] = ['no', 'no', 'no', 'yes', 'no', 'yes', 'no', 'yes']
 df

evade	taxable_income	martial_status	refund	
no	125000	single	yes	0
no	100000	married	no	1
no	70000	single	no	2
no	120000	married	yes	3
yes	95000	divorced	no	4
no	60000	married	no	5
no	220000	divorced	yes	6
yes	85000	single	no	7
no	75000	married	no	8
yes	90000	single	no	9

print('no : ',prb*pa(data,'evade','no'))
print('Evade of X is No')

yes: 0.0

no: 0.08163265306122447

Evade of X is No



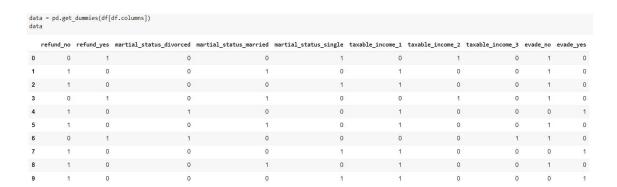
9

no

```
for i in range(len(df)):
    df.loc[i,'taxable_income']=str(ceil(df.loc[i,'taxable_income']/100000))
df
```

	refund	martial_status	taxable_income	evade
0	yes	single	2	no
1	no	married	1	no
2	no	single	11	no
3	yes	married	2	no
4	no	divorced	1	yes
5	no	married	1	no
6	yes	divorced	3	no
7	no	single	1	yes
8	no	married	1	no

single



yes

```
x=['no','married',140000]
x[2]=str(ceil(x[2]/100000))
x
```

['no', 'married', '2']