9) Regression

Program:

```
import numpy as np
import pandas as pd
df=pd.read_csv('Employee.csv')
print(df)
df.info()
df.dropna(inplace=True)
features=df.iloc[:,[0]].values
label=df.iloc[:,[1]].values
features=df.iloc[:,[0]].values
label=df.iloc[:,[1]].values
from sklearn.linear_model import LinearRegression
model=LinearRegression()
model.fit(x_train,y_train)
model.score(x_train,y_train)
model.score(x_test,y_test)
Model.intercept_
yr_of_exp=float(input("Enter Years of Experience: "))
yr_of_exp_NP=np.array([[yr_of_exp]])
Salary=model.predict(yr_of_exp_NP)
```

Output:

	YearsExperience	Salary
count	30.000000	30.000000
mean	5.313333	76003.000000
std	2.837888	27414.429785
min	1.100000	37731.000000
25%	3.200000	56720.750000
50%	4.700000	65237.000000
75%	7.700000	100544.750000
max	10.500000	122391.000000