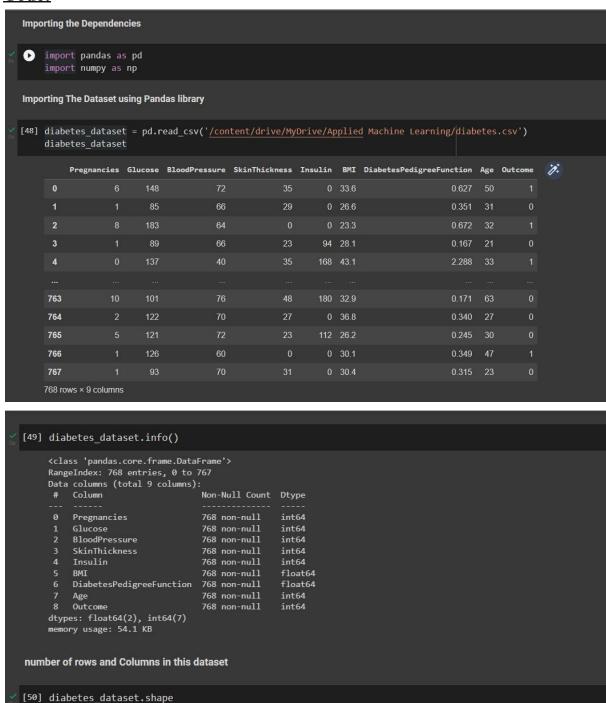
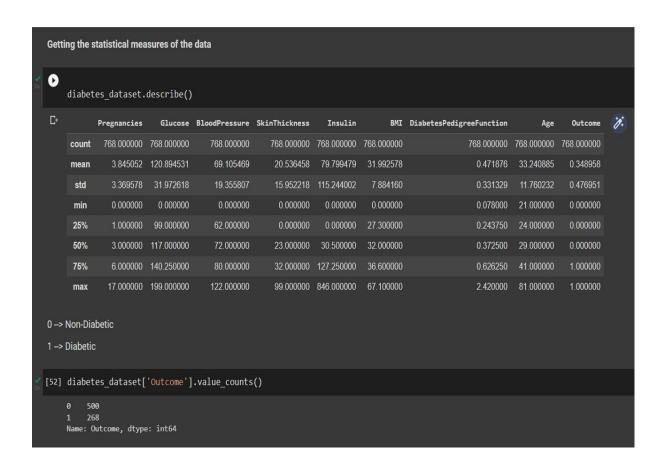
## Mini Project

## Aim: Build a diabetes predictive system using Machine Learning.

## Code:

(768, 9)







```
Predicting The Outcome

[56] y_predict=DT.predict(x_test)

Performance Measure

or from sklearn.metrics import accuracy_score,confusion_matrix accuracy=accuracy_score(y_test,y_predict)*100 confusionMatrix=confusion_matrix(y_test,y_predict) print(confusionMatrix) print(accuracy)

[31 23] [31 23] [69.48051948051948
```

```
print("For How many People You Want To Check Diabetes Status ?");
number = int(input())
if(number<=0):
    print("You must chech for atleast one person:")
else:
    print("Enter The Following Details For Each Person:-")
for i in range(number):
    id=int(input("Unique_Id:"))
    pregnencies=int(input("Pregnencies:"))
    glucose=int(input("glucose:"))
    bloodPressure=int(input("bloodPressure:"))
    skinThickness=int(input("skinThickness:"))
    insuline=int(input("Insuline:"))
    bmi=float(input("BMI:"))
    dpf=float(input("Diabetic_Pedegree_Function:"))
    age=int(input("Age:"))</pre>
```

input\_data\_list=[pregnencies,glucose,bloodPressure,skinThickness,insuline,bmi,dpf,age]

**Making a Predictive System** 

input\_data=np.array(input\_data\_list)
input\_data=input\_data.reshape(1,-1)
prediction=DT.predict(input\_data)

print("The person does not have Diabetes")

print("The person is Suffering from Diabetes")

print("The result is:-")
if prediction==0:

## Output:-

```
For How many People You Want To Check Diabetes Status ?

1
Enter The Following Details For Each Person:-
Unique_Id:1
Pregnencies:1
glucose:120
bloodPressure:120
skinThickness:19
Insuline:0
BMI:19
Diabetic_Pedegree_Function:.7
Age:28
The result is:-
The person does not have Diabetes
```