Unit Testing Report

1. When you have loans due to the bank and then you go and ask for another loan, i.e your Credit History = 0 and you have moderate income then more likely your loan loan will not be approved and our model also shows the same.

```
In [120]: i1 = int(input("Applicant Income = "))
                    Applicant Income = 2500
         In [121]: i2 = int(input("Co-Applicant Income = "))
                    Co-Applicant Income = 1500
         In [122]: i3 = int(input("Loan Amount = "))
                    Loan Amount = 120
         In [123]: i4 = int(input("Loan Term = "))
                    Loan Term = 360
         In [124]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
                    Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 2
         In [125]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))
                    Married (Enter 1 if 'Yes', 0 if 'No') = 1
         In [126]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))
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                    Gender (Enter 1 if 'Male', 0 if 'Female') = 1
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         In [127]: i8 = int(input("Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or
                    Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or more Dependent ts) = 0
         In [128]: i9 = int(input("Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')"))
                    Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')1
         In [129]: i10 = int(input("Education (Enter 1 if 'Graduate', 0 otherwise) = "))
                    Education (Enter 1 if 'Graduate', 0 otherwise) = 1
         In [130]: i11 = int(input("Credit History (Enter 1 if no pending loans, 0 otherwise) = "))
                    Credit History (Enter 1 if no pending loans, 0 otherwise) = 0
?
```



2. When your Income is good and you have no pending loans then more likely your loan will be approved and out model also shows the same.

```
In [186]: i1 = int(input("Applicant Income = "))

Applicant Income = 4200

In [187]: i2 = int(input("Co-Applicant Income = "))

Co-Applicant Income = 1000

In [188]: i3 = int(input("Loan Amount = "))

Loan Amount = 250

In [110]: i4 = int(input("Loan Term = "))

Loan Term = 360

In [111]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))

Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 1

In [112]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))

Married (Enter 1 if 'Yes', 0 if 'No') = 1

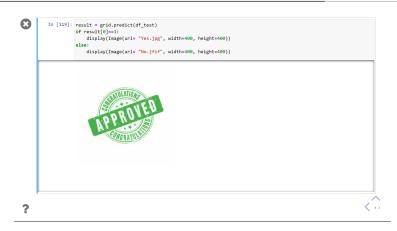
In [113]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))

Gender (Enter 1 if 'Male', 0 if 'Female') = 1
```

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3. When your Income is low, although you have no pending loans then too more likely your loan will not be approved and our model also shows the same.

```
In [134]: i1 = int(input("Applicant Income = "))

Applicant Income = 1400

In [135]: i2 = int(input("Co-Applicant Income = "))

Co-Applicant Income = 0

In [136]: i3 = int(input("Loan Amount = "))

Loan Amount = 120

In [137]: i4 = int(input("Loan Term = "))

Loan Term = 360

In [138]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))

Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 1

In [139]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))

Married (Enter 1 if 'Yes', 0 if 'No') = 1

In [140]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))

Gender (Enter 1 if 'Male', 0 if 'Female') = 1
```

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```
In [141]: i8 = int(input("Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or

Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or more Dependent ts) = 0

In [142]: i9 = int(input("Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')"))

Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')1

In [143]: i10 = int(input("Education (Enter 1 if 'Graduate', 0 otherwise) = "))

Education (Enter 1 if 'Graduate', 0 otherwise) = 1

In [144]: i11 = int(input("Credit History (Enter 1 if no pending loans, 0 otherwise) = "))

Credit History (Enter 1 if no pending loans, 0 otherwise) = 1
```

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4. When your Income is Okayish but you have no dependents and the Loan amount is also low then more likely your loan will be approved and our model also shows the same.

```
In [149]: i1 = int(input("Applicant Income = "))
3
                    Applicant Income = 2500
         In [150]: i2 = int(input("Co-Applicant Income = "))
                    Co-Applicant Income = 1000
         In [151]: i3 = int(input("Loan Amount = "))
         In [152]: i4 = int(input("Loan Term = "))
         In [153]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
                    Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 0
         In [154]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))
                    Married (Enter 1 if 'Yes', 0 if 'No') = 1
         In [155]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))
?
                    Gender (Enter 1 if 'Male', 0 if 'Female') = 1
3
         In [156]: i8 = int(input("Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or
                    Number of Dependents (Enter \theta if \theta Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or more Dependents) = \theta
         In [157]: i9 = int(input("Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')"))
                    Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')0
         In [158]: i10 = int(input("Education (Enter 1 if 'Graduate', 0 otherwise) = "))
                    Education (Enter 1 if 'Graduate', 0 otherwise) = 0
         In [159]: i11 = int(input("Credit History (Enter 1 if no pending loans, 0 otherwise) = "))
                    Credit History (Enter 1 if no pending loans, \theta otherwise) = 1
?
```



5. When the Source of Income of the Family is only one person and there are many dependents then more likely your loan will not be approved and our model also shows the same.

```
In [92]: i1 = int(input("Applicant Income = "))
                    Applicant Income = 4000
           In [93]: i2 = int(input("Co-Applicant Income = "))
                    Co-Applicant Income = 0
           In [94]: i3 = int(input("Loan Amount = "))
                    Loan Amount = 250
           In [95]: i4 = int(input("Loan Term = "))
           In [97]: i5 = int(input("Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = "))
                    Property Area (Enter 2 if 'Urban', 1 if 'Semi-Urban', 0 if 'Rural') = 2
           In [98]: i6 = int(input("Married (Enter 1 if 'Yes', 0 if 'No') = "))
                    Married (Enter 1 if 'Yes', \theta if 'No') = 1
           In [99]: i7 = int(input("Gender (Enter 1 if 'Male', 0 if 'Female') = "))
?
                    Gender (Enter 1 if 'Male', 0 if 'Female') = 1
3
          In [100]: i8 = int(input("Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or
                    Number of Dependents (Enter 0 if 0 Dependents, 1 if 1 Dependent, 2 if 2 Dependents, 3 if 3 or more Dependents) = 3
          In [101]: i9 = int(input("Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')"))
                    Wether you are self Employed or not? (Enter 1 if 'Yes', 0 if 'No')1
          In [102]: i10 = int(input("Education (Enter 1 if 'Graduate', 0 otherwise) = "))
                    Education (Enter 1 if 'Graduate', 0 otherwise) = 1
          In [103]: i11 = int(input("Credit History (Enter 1 if no pending loans, 0 otherwise) = "))
                    Credit History (Enter 1 if no pending loans, 0 otherwise) = 1
```

