TEAM ID	PNT2022TMID22390
TITLE	AI BASED DISCOURSE FOR BANKING INDUSTRY
DATE	16.11.2022

Creating Loan Account Action

```
# Create a window
window = Tk()
window.title("Loan Calculator") # Set title
# create the input boxes.
Label(window, text = "Annual Interest Rate").grid(row = 1,
                   column = 1, sticky = W)
Label(window, text = "Number of
Years").grid(row = 2,
                column = 1, sticky = W)
Label(window, text = "Loan
Amount").grid(row = 3,
             column = 1, sticky = W)
         Label(window, text = "Monthly
             Payment").grid(row = 4,
                column = 1, sticky = W)
Label(window, text = "Total Payment").grid(row
= 5,
               column = 1, sticky = W)
# for taking inputs
```

```
self.annualInterestRateVar =
StringVar()
Entry(window, textvariable =
       self.annualInterestRateVar,justify =
       RIGHT).grid(row = 1, column = 2)
self.numberOfYearsVar = StringVar()
Entry(window, textvariable =
    self.numberOfYearsVar,justify =
    RIGHT).grid(row = 2, column = 2)
self.loanAmountVar = StringVar()
Entry(window, textvariable =
  self.loanAmountVar,justify =
  RIGHT).grid(row = 3, column = 2)
self.monthlyPaymentVar = StringVar()
lblMonthlyPayment = Label(window,
textvariable =
      self.monthlyPaymentVar).grid(row
      = 4,column = 2, sticky = E)
self.totalPaymentVar = StringVar()
lblTotalPayment = Label(window,
textvariable =
      self.totalPaymentVar).grid(row =
      column = 2, sticky = E)
```

```
btComputePayment = Button(window, text = "Compute
              Payment",command = self.computePayment).grid(
                row = 6, column = 2, sticky =
  E)# Create an event loop
  window.mainloop()
def computePayment(self):
  # compute the total payment.
  monthlyPayment =
          self.getMonthlyPayment(float(self.loanAmountVar.get()),
          float(self.annualInterestRateVar.get()) / 1200,
          int(self.numberOfYearsVar.get()))
  self.totalPaymentVar.set(format(totalPayment,
'10.2f'))# compute the monthly payment.
def getMonthlyPayment(self, loanAmount, monthlyInterestRate,
numberOfYears):
  monthlyPayment = loanAmount *
          monthlyInterestRate /(1-1/(1+
          monthlyInterestRate) **
          (numberOfYears * 12))
from tkinter import
  return
monthlyPayment;#
Import tkinter
class
  LoanCalculator:
  def__init_(self):
```

create the button

```
window = Tk() # Create a window
    window.title("Loan Calculator") #
    Set title#
create the input boxes.
    Label(window, text = "Annual Interest Rate").grid(row = 1,
                       column = 1, sticky = W)
    Label(window, text = "Number of
    Years").grid(row = 2,
                    column = 1, sticky = W)
    Label(window, text = "Loan
    Amount").grid(row = 3,
                 column = 1, sticky = W)
  Label(window, text = "Monthly Payment").grid(row =
                    column = 1, sticky = W)
    Label(window, text = "Total
    Payment").grid(row = 5,
                   column = 1, sticky = W)
    # for taking inputs
    self.annualInterestRateVar =
    StringVar()
    Entry(window, textvariable =
           self.annualInterestRateVar,justify =
           RIGHT).grid(row = 1, column =)
    self.numberOfYearsVar = StringVar()
    Entry(window, textvariable =
         self.numberOfYearsVar,justify =
         RIGHT).grid(row = 2, column = 2)
    self.loanAmountVar = StringVar()
```

```
Entry(window, textvariable =
     self.loanAmountVar,justify =
     RIGHT).grid(row = 3, column = 2)
  self.monthlyPaymentVar = StringVar()
  lblMonthlyPayment = Label(window,
  textvariable =
            self.monthlyPaymentVar).grid(row
            = 4,column = 2, sticky = E)
  self.totalPaymentVar = StringVar()
  lblTotalPayment = Label(window,
  textvariable =
          self.totalPaymentVar).grid(row
          = 5,column = 2, sticky = E)
  # create the button
  btComputePayment = Button(window, text = "Compute
                Payment",command = self.computePayment).grid(
                row = 6, column = 2, sticky =
  E)window.mainloop() # Create an event
  loop
# compute the total
payment.def
computePayment(self):
  monthlyPayment = self.getMonthlyPayment(1200,
  int(self.numberOfYearsVar.get()))
     float(self.loanAmountVar.get()),
  float(self.annualInterestRateVar.get()) /
```

Flowchart:

