Pseudo Code

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START
Load Suitable Graph Module

DEFINE PROCEDURE showInfo():
   SHOW TO USER("Name : Raguraj S.")
   SHOW TO USER("Index Number : 205080K")

DEFINE PROCEDURE drawPlot(xvalue1,xvalue2,yvalue1,yvalue2,xlabel,ylabel):
   SET x TO [xvalue1,xvalue2]
   SET y TO [yvalue1,yvalue2]
   SET x,y coordinates in the plot
   SET X Label to xlabel
   SET Y Label to ylabel
   SHOW FINAL GRAPH

DEFINE PROCEDURE getRepetitionInputFromUser():
   SHOW TO USER("What Elasticity Would you like to Measure ?")
   SHOW TO USER("PED,YED,XED,PES\n Seperate By ',' eg: PED,YED,PES")
   calculate=GET FROM USER()
   wantToCalculate=Split values inside the calculate by commas
   initialPrice=GET FROM USER("Enter initial Price of Gas cylinder: ") as floating point value
   newPrice=GET FROM USER("Enter new Price of Gas cylinder: ") as floating point value
   initialDemand=GET FROM USER("Enter initial Demand of Gas cylinder: ") as floating point value
   newDemand=GET FROM USER("Enter new Demand of Gas cylinder: ") as floating point value
   initialDemandCooker=GET FROM USER("Enter initial Demand of Inductive Cooker: ")
   newDemandCooker=GET FROM USER("Enter new Demand of Inductive Cooker: ")
   IF user wants to calculate "YED" then
      initialIncome=GET FROM USER("Enter initial Income : ") as floating point value
      newIncome=GET FROM USER("Enter new Income : ") as floating point value
   END IF
            FOR every elasticity we want to calculate do again and again:
      IF(value of calculate is "ped"):
         DO PROCEDURE ped(initialPrice,newPrice,initialDemand,newDemand)
      ELSE IF(value of calculate is "xed"):
         DO PROCEDURE xed(initialDemandCooker,newDemandCooker,initialPrice,newPrice)
      ELSE IF(value of calculate is "yed"):
         DO PROCEDURE yed(initialIncome,newIncome,initialDemand,newDemand)
      ELSE IF(value of calculate is "pes"):
         DO PROCEDURE pes(initialPrice,newPrice,initialDemand,newDemand)
      END IF
   END LOOP
   inp=GET FROM USER("Would you like to view graph ? (y/n) : ") as string
   if value if inp is "y":
      show graph according to the user preference
   getFromUser=GET FROM USER("Would You like to calculate  another problem ?(y/n) : ")
   if( value of getFromUser is "y"):
      DO PROCEDURE getRepetitionInputFromUser()
   else:
      exit the program

DEFINE PROCEDURE ped( iPrice,nPrice,iQuantity,nQuantity ):
   SHOW TO USER("Change IN Price of Gas cylinder is : ",absoluteValue(iPrice-nPrice))
   SHOW TO USER("Change IN Quantity of Gas cylinder is : ",absoluteValue(iQuantity-nQuantity))
   value=((iQuantity-nQuantity)/(iPrice-nPrice))*(iPrice/iQuantity)
   SHOW TO USER("PED is : "+ absoluteValue(value) in 2 point format)
   Wait for 1 second

DEFINE PROCEDURE xed(iDemand,nDemand,iPrice,nPrice):
   SHOW TO USER("Change IN Demand of Inductive Cooker is : ",absoluteValue(iDemand-nDemand))
   SHOW TO USER("Change IN Price of Gas Cylinder is : ",absoluteValue(iPrice-nPrice))
   value=((iDemand-nDemand)/(iPrice-nPrice))*(iPrice/iDemand)
   SHOW TO USER("XED is : "+ absoluteValue(value) in 2 point format)
   Wait for 1 second
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DEFINE PROCEDURE yed(iIncome,nIncome,iQuantity,nQuantity):
    SHOW TO USER("Change IN Income of Customer is : ",absoluteValue(iIncome-nIncome))
    SHOW TO USER("Change IN Quantity of Gas Cylinder is : ",absoluteValue(iQuantity-nQuantity))
    value=((iQuantity-nQuantity)/(iIncome-nIncome))*(iIncome/iQuantity)
    SHOW TO USER("YED is : "+ absoluteValue(value) in 2 point format)
    Wait for 1 second


DEFINE PROCEDURE pes(iPrice,nPrice,iQuantity,nQuantity):
    SHOW TO USER("Change IN Price of Gas Cylinder is : ",absoluteValue(iPrice-nPrice))
    SHOW TO USER("Change IN Quantity of Gas Cylinder is : ",absoluteValue(iQuantity-nQuantity))
    value=((iQuantity-nQuantity)/(iPrice-nPrice))*(iPrice/iQuantity)
    SHOW TO USER("PES is : "+ absoluteValue(value) in 2 point format)
    Wait for 1 second

DO PROCEDURE showInfo()
DO PROCEDURE getRepetitionInputFromUser()
END
```