1.

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| Input | Processing | Output |
| A= input("Do you want to start the program?") | Sales = 100  # Initialize Sales with a default value  Sales = Sales \* (1 + 0.1)  # Assuming Month is a percentage (e.g., 0.1 for 10%)  def Month(Jan, Feb, March):      print ("The forecast percent is 0.10")      def Month(April, May, June):          print("The forecast percent is 0.15")          def Month(July, August, September):              print("The forecast percent is 0.20")              def Month(October, Novemeber, December):                  print("The forecast percent is 0.25")                  return Month | Last Name |
| LastName = input("Enter your last name")  Month = input("Enter the month") |  | Month |
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2.

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| --- | --- | --- |
| Input | Processing | Output |
| A = input("Do you want to begin the program? (Yes or No) ")  if A.lower() == "yes":      Length = int(input("Enter the length amount: "))      Width = int(input("Enter the width amount: "))      Height = int(input("Enter the height amount: ")) | def Area(Length, Width, Height):          area = 2 \* (Length \* Width + Length \* Height + Width \* Height)          print("The area is " + str(area))          return area      def Multiply(area):          surface\_area = area / 50          print("The surface area is " + str(surface\_area))          return surface\_area | while True:          E = input("Do you want to continue the program? (Yes or No) ")          if E.lower() == "yes":              Length = int(input("Enter the length amount: "))              Width = int(input("Enter the width amount: "))              Height = int(input("Enter the height amount: "))              area = Area(Length, Width, Height)              Multiply(area)          else:              print("The program has ended.")              break  else:      print("The program has ended.") |
|  | area = Area(Length, Width, Height)      Multiply(area) |  |
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3.

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| --- | --- | --- |
| Input | Processing | Output |
| Make | def Make(Honda\_Accord, Toyota\_Rav4, Electric, Others):      if Make == Honda\_Accord:          Percent = 0.10          print("The percent is: ", Percent)      if Make == Toyota\_Rav4:          Percent = 0.15          print("The percent is: ", Percent)      if Make == Electric:          Percent = 0.30          print("The percent is: ", Percent)      if Make == Others:          Percent = 0.05          print("The percent is: ", Percent)      return Percent  def electric(Electric):      if Electric == "Yes":          Percent= 0.30          print("The percent is: ", Percent)      else:          Percent= 0.00          print("The percent is: ", Percent)      return Percent  def MSRP(MSRP, Percent):    Total = MSRP - (Percent \* MSRP + .07 \* MSRP)    print("The name of the model is: ", Make)    print("The MSRP is: ", MSRP)    return Total  print("The total cost is: ", Total)  print("The total cost is: ", Total) | Make |
| Model | A = input("Do you want to begin? (Yes or No)")  while A.lower() == "yes":      Honda\_Accord = "Honda Accord"      Toyota\_Rav4 = "Toyota Rav4"      Others = "Others"      Percent = Make(Honda\_Accord, Toyota\_Rav4, Electric, Others)      electric\_percent = electric(Electric)      Total = MSRP(MSRP, Percent)      print("The total cost is: ", Total)      A = input("Do you want to continue? (Yes or No)")  else: | Model |
| Vehicle\_Code |  | Vehicle\_Code |
|  |  |  |
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4.

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| Input | Processing | Output |
| LastName | if A== "Yes":      print("Enter your last name : ", LastName)  def Miles():     print("Enter the miles away from chicago distances:")     Miles = float(input())  def Ticket():      print("The ticket prices are: ")      Ticket = [12,10,8,5]      return Ticket | LastName |
| Miles |  | Miles |
|  |  | TicketPrice |
|  |  |  |
|  |  |  |

5.

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| --- | --- | --- |
| Input | Processing | Output |
| County | Cook = "Cook"  Dupage = "Dupage"  McHenry = "McHenry"  Kane = "Kane"  Others = "Others"  def A(Yes, Y):      if A == Yes or A == Y:          return True      else:          return False  def A(No, N):      if A == No or A == N:          return False      else:          return True  def Market(Cook, Dupage, McHenry, Kane, Others):      if County == Cook:          Value = 0.90          print ("The value of the property is: ", Value)          if County == Dupage:              Value = 0.80              print ("The value of the property is: ", Value)              if County == McHenry:                  Value = 0.75                  print ("The value of the property is: ", Value)                  if County == Kane:                      Value = 0.60                      print ("The value of the property is: ", Value)                      if County == Others:                          Value = 0.70                          print ("The value of the property is: ", Value)                          Total(Value, Market)                          Total = Value \* Market                          return Total                      return Value  def Total(Value, Market):      Total = Value \* Market      return Total | County |
| Market |  | Market |
|  |  | Total |
|  |  |  |
|  |  |  |