

Task1

Declare ItemCode[1:17], Description[1:17], CaseCode, RamCode, MainDiskCode, DescriptionCase, DescriptionRam, DescriptionMainDisk as **STRING**

Declare Price[1:17], PriceCase, PriceRam, PriceMainDisk as **REAL**

Declare Count, BasicComponentsCost as **INTEGER**

FOR Count = 1 TO 17

INPUT ItemCode (Count)

INPUT Description(Count)

INPUT Price(Count)

Next Count

// Selection of Case, RAM & Main Hard Disk

REPEAT

INPUT CaseCode

UNTIL CaseCode ="A1" or CaseCode="A2"

REPEAT

INPUT RamCode

UNTIL RamCode ="B1" or CaseCode="B2" or RamCode="B3"

REPEAT

INPUT MainDiskCode

UNTIL MainDiskCode ="C1" or MainDiskCode ="C2" or MainDiskCode ="C3"

// Price Calculation

FOR Count = 1 TO 17

IF CaseCode = ItemCode(Count) **THEN**

 PriceCase = Price(Count)

 DescriptionCase = Description(Count)

ENDIF

IF RamCode = ItemCode(Count) **THEN**

 PriceRam = Price(Count)

 DescriptionRam = Description(Count)

ENDIF

IF MainDiskCode = ItemCode(Count) **THEN**

 PriceMainDisk = Price(Count)

 DescriptionMainDisk = Description(Count)

ENDIF

NEXT Count

BasicComponentCost= 200

Total Price = BasicComponentCost + PriceCase + PriceRam + PriceMainDisk

// Output the Price and Chosen Items

PRINT " ItemCode Description Price"

PRINT "*****"

PRINT CaseCode, DescriptionCase, PriceCase; "\$"

PRINT RamCode, DescriptionRam, PriceRam ;"\$"

PRINT MainDiskCode, DescriptionMainDisk, PriceMainDisk; "\$"

PRINT "The total Price of computer is, totalPrice, /\$"

Task2

Declare Choice, AddItemCode[1:n], AddDescription[1:n] as **STRING**

Declare AddPrice[1:n], ExtraPrice, FinalPrice as **REAL**

PRINT "Do you want to buy additional items? Press y for YES or n for NO"

INPUT Choice

IF Choice = "y" **THEN**

INPUT "Enter the number of items you want to buy", n

 // Selection of SSD, Second Hard Disk, Optical drive & Operating system

FOR Index = 1 **TO** n

INPUT AddItemCode(Index)

NEXT Index

FOR Index = 1 **TO** n

FOR Count 1 **TO** 17

IF AddItemCode(Index) = ItemCode(Count) **THEN**

 AddDescription(Index) = Description(Count)

 AddPrice(Index) = Price(Count)

ENDIF

NEXT Count

NEXT Index

 // Computation of Price of additional itmes & Final Price of computer

 ExtraPrice = 0

FOR Index = 1 **TO** n

 ExtraPrice = ExtraPrice + AddPrice(Index)

NEXT Index

 FinalPrice = TotalPrice + ExtraPrice

 // Output the Final Price of computer and the Chosen additional items

PRINT "ItemCode Description Price"

PRINT "*****"

FOR Index = 1 **TO** n

 AddItemCode(Index), AddDescription(Index), AddPrice(Index); "\$"

NEXT Index

PRINT "Final Price of computer is:", FinalPrice; "\$"

ENDIF

Task3

Declare Discount, MoneySaved, NewPrice as **REAL**

Discount = 0

IF n = 1

THEN

Discount = 0.05

ELSEIF n > 1 **THEN**

Discount = 0.1

ENDIF

MoneySaved = Final Price * Discount

NewPrice = FinalPrice – MoneySaved

PRINT “Saved Money”, MoneySaved; “\$”

PRINT “New Price”, New Price; “\$”

Mega Lecture