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ITP 100

Module Main ()

Declare Integer employeeNo, index, newEmployee

Display “How many employees do you want to enter?”

Input employeeNo

For index= 0 to employeeNo -1

SetEmployee() = newEmployee(empID, firstName, lastName,

payRate)

End for

End module

Class Employee

// Get Strings and set the names

Declare Private String empID, Private String firstName, Private String lastName, Private Real payRate

Public Module Employee() (String id, String fName, String IName, Real testPay)

Set empID = id

Set FirstName = fName

Set lastName = lName

Set payRate = testPay

End module

Public Module setID (String id)

Display “Enter the employee ID please: ”

Input id[index]

If length(id) = 4 then

Display “ERROR: replace invalid employee ID with the ID set to XXXX.”

Set id = ‘‘XXXX”

Else

Set empID = id

End if

End module

Public Module setFirstName(string fName)

Display “Enter employee’s first name: ”

Input fName[index]

If length(fName) > 1 AND length (fName) < 21 Then

Set firstName = fName

Else

Display “ERROR: invalid name length entered. Set the firstName to XXXX.”

Set firstName = fName

End if

End module

Public Module setLastName (string lName)

Display “Enter employee’s last name: ”

Input lastName[index]

If length (lName) >= 2 AND length (lName) <= 20 Then

Set lastName = lName

Else

Display “ERROR: invalid name length entered. Set Last name to XXXX.”

Set LastName = lName

End if

End Module

Public Module setPayRate (Real testPay)

Display “Enter the employee’s pay rate: “

Input testPay

If testPay >= 0 AND testPay = 1000000 Then

Set payRate = testPay

Else

Display “ERROR: invalid pay rate entered. Set the pay rate to 0.”

End If

End Module

Private Function String ValidString(String empID, String firstName, String lastName, Real payRate, String validMin, Integer validLength )

Declare Integer counter, String newString = “XXXX”

If length (newString) < validMin OR length (newString) > validLength Then

Display “Invalid first name. Set to XXXX”

For counter = 0 to validLength – 1

Set newString = Append (newString), “XXXX”

End For

End If

Return

End Function

Public Function String DisplayEmployee

Return Append (empID ”,”, firstName ”,”, lastName ”,”, payRate)

End Function

End Class