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BSCS 2nd Year

Graphical user interface, application, Word

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// Main Form

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace MyCInheritance {

public partial class MainForm : Form {

public MainForm () {

InitializeComponent();

}

private void ShowForm(Form form) {

pnlBody.Controls.Clear();

form.TopLevel = false;

pnlBody.Controls.Add(form);

form.Show();

}

private void btnStudentForm\_Click (object sender, EventArgs e) {

ShowForm(new StudentForm());

}

private void button2\_Click (object sender, EventArgs e) {

ShowForm(new TeacherForm());

}

}

}

// Student Form

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace MyCInheritance {

public partial class StudentForm : Form {

ClassStudent student = new ClassStudent();

public StudentForm () {

InitializeComponent();

}

private void btnPreview\_Click (object sender, EventArgs e) {

student.SetStudentNumber(int.Parse(txtStudentNumber.Text));

student.SetLastName(txtLastName.Text);

student.SetFirstName(txtFirstName.Text);

student.SetMiddleName(txtMiddleName.Text);

student.SetAge(int.Parse(txtAge.Text));

student.SetCourse(txtCourse.Text);

student.SetDepartment(txtDepartment.Text);

string message = String.Concat(

"Student Number: ", student.GetStudentNumber().ToString(), "\n",

"Last Name: ", student.GetLastName(), "\n",

"First Name: ", student.GetFirstName(), "\n",

"Middle Name: ", student.GetMiddleName(), "\n",

"Age : ", student.GetAge().ToString(), "\n",

"Course : ", student.GetCourse(), "\n",

"Department : ", student.GetDepartment(), "\n"

);

MessageBox.Show(message);

}

private void btnClose\_Click (object sender, EventArgs e) {

this.Close();

}

}

}

// Teacher Form

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace MyCInheritance {

public partial class TeacherForm : Form {

ClassTeacher teacher = new ClassTeacher();

public TeacherForm () {

InitializeComponent();

}

private void btnPreview\_Click (object sender, EventArgs e) {

teacher.SetEmployeeID(int.Parse(txtEmployeeID.Text));

teacher.SetLastName(txtLastName.Text);

teacher.SetFirstName(txtFirstName.Text);

teacher.SetMiddleName(txtMiddleName.Text);

teacher.SetAge(int.Parse(txtAge.Text));

teacher.SetPosition(txtPosition.Text);

teacher.SetTaxID(txtTaxID.Text);

string message = String.Concat(

"Employee ID : ", teacher.GetEmployeeID().ToString(), "\n",

"Last Name: ", teacher.GetLastName(), "\n",

"First Name: ", teacher.GetFirstName(), "\n",

"Middle Name: ", teacher.GetMiddleName(), "\n",

"Age : ", teacher.GetAge().ToString(), "\n",

"Position : ", teacher.GetPosition(), "\n",

"Tax ID : ", teacher.GetTaxID(), "\n"

);

MessageBox.Show(message);

}

private void btnClose\_Click (object sender, EventArgs e) {

this.Close();

}

}

}

// Class: ClassPerson

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace MyCInheritance {

class ClassPerson {

private string \_lastName;

private string \_firstName;

private string \_middleName;

private int \_age;

public ClassPerson () {

\_lastName = "";

\_firstName = "";

\_middleName = "";

\_age = 0;

}

// Setters

public void SetLastName (string lastName) {

\_lastName = lastName;

}

public void SetFirstName (string firstName) {

\_firstName = firstName;

}

public void SetMiddleName (string middleName) {

\_middleName = middleName;

}

public void SetAge (int age) {

\_age = age;

}

// Getters

public string GetLastName () {

return \_lastName;

}

public string GetFirstName () {

return \_firstName;

}

public string GetMiddleName () {

return \_middleName;

}

public int GetAge () {

return \_age;

}

}

}

// Class: ClassStudent

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace MyCInheritance {

class ClassStudent : ClassPerson {

private int \_studentNumber;

private string \_course;

private string \_department;

public ClassStudent () {

\_studentNumber = 0;

\_course = "";

\_department = "";

}

// Setters

public void SetStudentNumber (int studentNumber) {

\_studentNumber = studentNumber;

}

public void SetCourse (string course) {

\_course = course;

}

public void SetDepartment (string department) {

\_department = department;

}

// Getters

public int GetStudentNumber () {

return \_studentNumber;

}

public string GetCourse () {

return \_course;

}

public string GetDepartment () {

return \_department;

}

}

}

// Class: ClassTeacher

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace MyCInheritance {

class ClassTeacher : ClassPerson {

private int \_employeeID;

private string \_position;

private string \_taxID;

public ClassTeacher () {

\_employeeID = 0;

\_position = "";

\_taxID = "";

}

// Setters

public void SetEmployeeID (int employeeID) {

\_employeeID = employeeID;

}

public void SetPosition (string position) {

\_position = position;

}

public void SetTaxID (string taxID) {

\_taxID = taxID;

}

// Getters

public int GetEmployeeID () {

return \_employeeID;

}

public string GetPosition () {

return \_position;

}

public string GetTaxID () {

return \_taxID;

}

}

}