

Laboratory Exercise Data Types, Variables and Conversion

Objectives:

At the end of the exercise, the students should be able to:

Declare, initialize, and convert data types.

Materials:

- Flash drive
- PC with installed Microsoft Visual C# 2010 Express

Procedures:

Activity 1 Data Types and Variables

Write the following codes inside a Form_Load and investigate the resulting value. Write the answer
for each question on a separate clean sheet of paper. You can create a Button Click event handler
to generate these statements.

```
const double budget = 12.10;
const double expenses = 10.50;
const string name = "[state your name]";
const string address = "[state your address]";
const string age = "[state your age]";
const bool answer = true;
const int count = 12;
double CashOnHand;
bool BoolResult = !answer;
int CountResult;
string Message;

    CashOnHand = budget - expenses;

2. Message = "Hi! " + name + " your age is " + age;
3. Message = "there are " + name.Count().ToString() + "letters of your
   name.";
4. Message = "Your name is " + name.ToUpper();
5. Message = "Your name is " + name.ToLower();
6. Message = BoolResult.ToString();
Example 1:
private void Form1_Load(object sender, EventArgs e)
    CountResult = count - 2;
    MessageBox.Show(CountResult);
 }
```

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Activity 2 Type Conversion

1. Write a program that **Converts** a data value by using **Convert** function and displaying the result by using **MessageBox.Show()** function.

Example:

```
private void Form1_Load(object sender, EventArgs e)
   string StringNumberValue;
   StringNumberValue = "12";
   string stringDateValue;
   stringDateValue = "Dec 12, 2013";
   string stringDoubleValue;
   stringDoubleValue = "12";
   int intTextValue;
   intTextValue = 12;
   MessageBox.Show("The Result for Text to Number Conversion is : " +
Convert.ToInt32(StringNumberValue));
  MessageBox.Show("The Result for Text to Date Conversion is: " +
Convert.ToDateTime(stringDateValue));
  MessageBox.Show("The Result for Text to Double Conversion is: " +
Convert.ToDecimal(stringDoubleValue));
  MessageBox.Show("The Result for Number to Text Conversion is: " +
Convert.ToString(intTextValue));
}
```

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