```
namespace Jose_Tamayo_Car_trip
{
    public partial class Form1 : Form
    {

        public Form1()
        {
            InitializeComponent();
        }
        // Theses are the car types Const name

        const string SUV_MODEL = "Suv Model";
        const string MINIVAN_MODEL = "Minivan Model";
        const string MICRO_MODEL = "Micro Model";
        private string CarType = SUV_MODEL;
        string CartypeTranslog = "CartypeTransactionlog.txt";
        string CartypeConfig = "CartypeConfig.txt";



        private void btnQuit_Click(object sender, EventArgs e)
        {
            DialogResult buttonSelected = MessageBox.Show(
                "are you sure you want to quit",
                 "Quitting....",
                 MessageBoxButtons.YesNo,
                 MessageBoxIcon.Question);
            if (buttonSelected == DialogResult.Yes)
            {

                this.Close();
            }
        }



        private void btnReset_Click(object sender, EventArgs e)
        {

            txtDestination.Clear();
            txtDistance.Clear();

            lstOutput.Items.Clear();
            rdoSuv.Checked = true;


        }

        private void btnCal_Click(object sender, EventArgs e)
```

```
        {
            // variables need to be daclared with data type - string
            string destination;
            double numberOfGallon;
            double distance;
            double mpg = 25;

            destination = txtDestination.Text;

            //ICA 6
            string CarTripTransLog = "cartypeTransactionlog.txt";
            StreamWriter sw;

            // input
            // Read from the txtbox into the variable

            bool isDistanceValid = double.TryParse(txtDistance.Text, out
              distance);
            if (!isDistanceValid || distance < 0)

            {
               lstOutput.Items.Clear();
               lstOutput.Items.Add("Error in the distance should be a Postive
                 number  ");
            }


            else
            {

                switch (CarType)
                {
                    case SUV_MODEL:
                        mpg = 25;
                        break;
                    case MICRO_MODEL:
                        mpg = 40;
                        break;
                    case MINIVAN_MODEL:
                        mpg = 30;
                        break;
                    default:
                        lstOutput.Items.Add("Error in switch - This should
                          never happen");
                        break;

                }// end of switch

                numberOfGallon = distance / mpg;
```

```
            // Output - every variable

            lstOutput.Items.Clear();

            lstOutput.Items.Add(" Destination is "+ destination);
            lstOutput.Items.Add("Distance in miles is " + distance.ToString
              ());
            lstOutput.Items.Add("MPG is " + mpg.ToString());
            lstOutput.Items.Add("Car Type is " + CarType);
            lstOutput.Items.Add("Gallons used is "+ numberOfGallon.ToString
              ());

            //ica 6
            sw = File.AppendText(CarTripTransLog);
            sw.Write(" *********** Transaction starts at: " +
                DateTime.Now + " *********** ");
            sw.WriteLine(" Destination is " + destination);
            sw.WriteLine("Distance in miles is " + distance.ToString());
            sw.WriteLine("MPG is " + mpg.ToString());
            sw.WriteLine("Car Type is " + CarType);
            sw.WriteLine("Gallons used is " + numberOfGallon.ToString());


            sw.Close();

            //* example of different ways to display date - uncomment to
              See the * differences
            lstOutput.Items.Add(DateTime.Now.ToString("D"));
            lstOutput.Items.Add(DateTime.Now.ToString("d"));
            lstOutput.Items.Add(DateTime.Now.ToString("T"));
            lstOutput.Items.Add(DateTime.Now.ToString("t"));
            lstOutput.Items.Add(DateTime.Now.ToString("G"));


            btnReset.Focus();
        }
        }



    private void Form1_Load(object sender, EventArgs e)
    {
        rdoSuv.Checked = true;
    }

    private void rdoSuv_CheckedChanged(object sender, EventArgs e)
    {
        if (rdoSuv.Checked)
```

```
            {
                CarType = SUV_MODEL;
            }
        }

        private void rdoMinivan_CheckedChanged(object sender, EventArgs e)
        {
            if (rdoMinivan.Checked)
            {
                CarType = MINIVAN_MODEL;
            }
        }

        private void rdoMicro_CheckedChanged(object sender, EventArgs e)
        {
            if (rdoMicro.Checked)
            {
                CarType = MICRO_MODEL;
            }
        }
    }
}
```