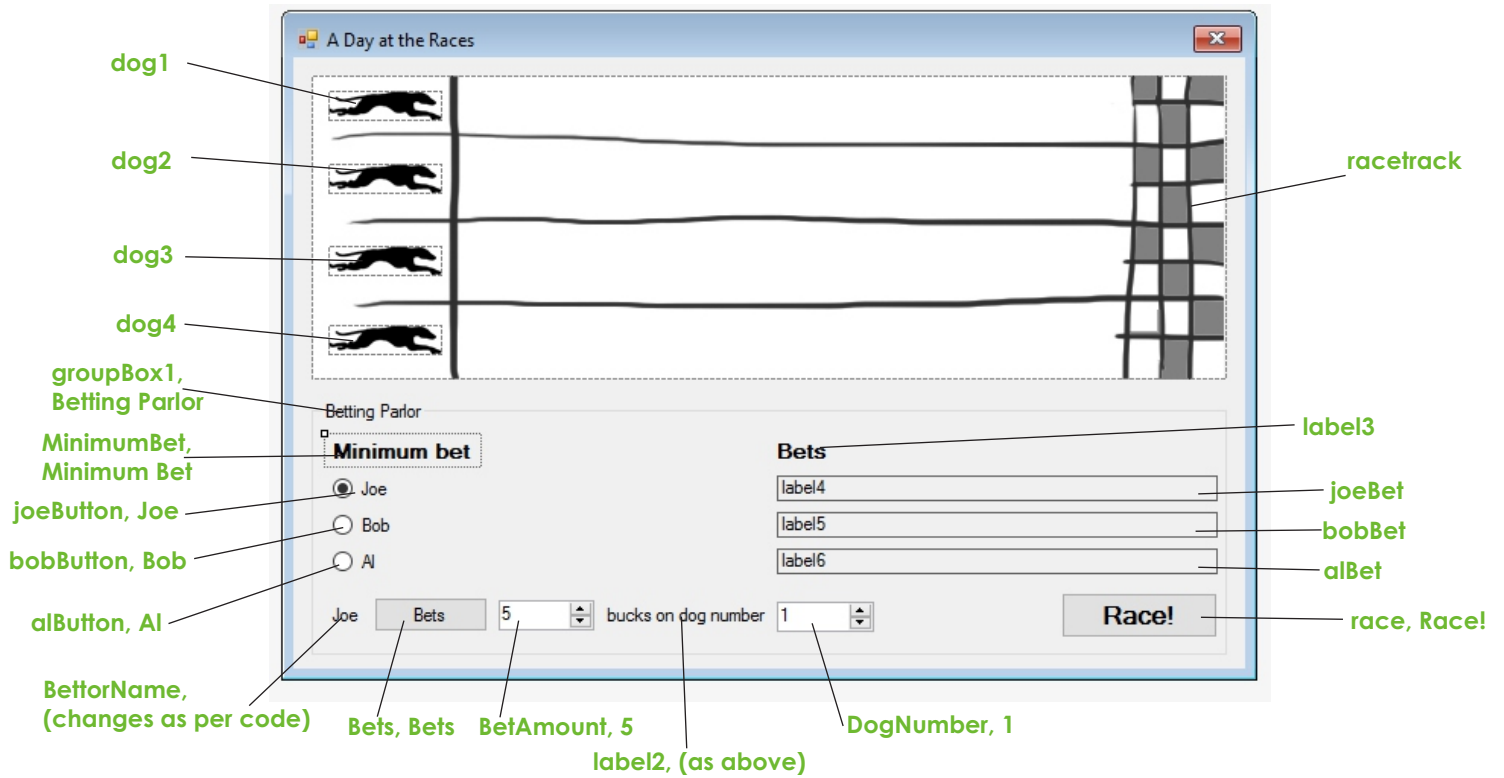


Below is what the form looks like with Name, Text or Value for the elements from the toolbox



Class greyhound

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Windows.Forms;
using System.Drawing;
```

```
namespace RaceTrackSimulator {
    public class Greyhound {
        public int StartingPosition;
        public int RacetrackLength;
        public PictureBox MyPictureBox = null;
        public int Location = 0;
        public Random MyRandom;

        public bool Run() {
            MyRandom = new Random();
            int distance = MyRandom.Next(1, 5);

            MoveMyPictureBox(distance);

            Location += distance;
            if (Location >= (RacetrackLength - StartingPosition)) {
                return true;
            }
            return false;
        }

        public void TakeStartingPosition() {
            MoveMyPictureBox(-Location);
            Location = 0;
        }

        public void MoveMyPictureBox(int distance) {
            Point p = MyPictureBox.Location;
            p.X += distance;
            MyPictureBox.Location = p;
        }
    }
}
```

What is null doing here ?

There is no class named Random created, Why is it mentioned here?

How is Next moving picturebox randomly from 1 - 5 ?

Shouldn't the method at the bottom come before this line ?

Is this method resetting all the dog's picturebox to startingpostion?

Haven't explained in the book how point works

Class Guy

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace RaceTrackSimulator {
    public class Guy {
        public string Name;
        public Bet MyBet;
        public int Cash;

        public RadioButton MyRadioButton;
        public Label MyLabel;

        public Guy(string Name, Bet MyBet, int Cash, RadioButton MyRadioButton,
Label MyLabel) {
            this.Name = Name;
            this.MyBet = MyBet;
            this.Cash = Cash;
            this.MyRadioButton = MyRadioButton;
            this.MyLabel = MyLabel;
        }

        public void UpdateLabels() {
            if (MyBet == null) {
                MyLabel.Text = String.Format("{0} hasn't placed any bets", Name);
            } else {
                MyLabel.Text = MyBet.GetDescription();
            }
            MyRadioButton.Text = Name + " has " + Cash + " bucks";
        }

        public void ClearBet() {
            MyBet.Amount = 0;
        }

        public bool PlaceBet(int Amount, int Dog) {
            if (Amount <= Cash) {
                MyBet = new Bet(Amount, Dog, this);
                return true;
            }
            return false;
        }

        public void Collect(int Winner) {
            Cash += MyBet.Payout(Winner);
        }
    }
}
```

What is happening in this line ?

Haven't really seen "this" being used outside designer.cs what does these lines mean ?

What is happening in this line ?
I know an instance MyBet is created, what is 'this' doing ?

Class Bet

```
public class Bet {
    public int Amount;
    public int Dog;
    public Guy Bettor;

    public Bet(int Amount, int Dog, Guy Bettor) {
        this.Amount = Amount;
        this.Dog = Dog;
        this.Bettor = Bettor;
    }

    public string GetDescription() {
        string description = "";
        if(Amount > 0) {
            description = String.Format("{0} bets {1} on dog #{2}",
                Bettor.Name, Amount, Dog);
        } else {
            description = String.Format("{0} hasn't placed any bets",
                Bettor.Name);
        }
        return description;
    }

    public int PayOut(int Winner) {
        if (Dog == Winner) {
            return Amount;
        }
        return -Amount;
    }
}
```

Again what is happening here ?

Is this line Necessary ?

Is it possible to mention these methods and variables in Guy Class so that there is no need for Bet class to be created ?

Why aren't there not more than one instance for Guy or Bet or Random Class are we dealing with 3 objects joe, bob and al ?

Form1 (page1)

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace RaceTrackSimulator {
    public partial class Form1 : Form {
        Greyhound[] dogs = new Greyhound[4];
        Guy[] guys = new Guy[3];

        public Form1() {
            InitializeComponent();
            SetupRaceTrack();
        }

        private void SetupRaceTrack() {
            MinimumBet.Text = string.Format("Minimum bet {0:c}",
(int)BetAmount.Minimum);

            int startingPosition = dog1.Right - racetrack.Left;
            int raceTrackLength = racetrack.Size.Width;

            dogs[0] = new Greyhound() { MyPictureBox = dog1,
                RacetrackLength = raceTrackLength,
                StartingPosition = startingPosition };
            dogs[1] = new Greyhound() { MyPictureBox = dog2,
                RacetrackLength = raceTrackLength,
                StartingPosition = startingPosition };
            dogs[2] = new Greyhound() { MyPictureBox = dog3,
                RacetrackLength = raceTrackLength,
                StartingPosition = startingPosition };
            dogs[3] = new Greyhound() { MyPictureBox = dog4,
                RacetrackLength = raceTrackLength,
                StartingPosition = startingPosition };

            guys[0] = new Guy("Joe", null, 50, joeButton, joeBet);
            guys[1] = new Guy("Bob", null, 75, bobButton, bobBet);
            guys[2] = new Guy("Al", null, 45, alButton, alBet);

            foreach (Guy guy in guys) {
                guy.UpdateLabels();
            }

            private void joeButton_CheckedChanged(object sender, EventArgs e) {
                SetBettorNameTextLabel("Joe");
            }

            private void bobButton_CheckedChanged(object sender, EventArgs e) {
                SetBettorNameTextLabel("Bob");
            }

            private void alButton_CheckedChanged(object sender, EventArgs e) {
                SetBettorNameTextLabel("Al");
            }

            private void SetBettorNameTextLabel(string Name) {
                BettorName.Text = Name;
            }
        }
    }
}
```

What is happening here ?

Why is this all null ?

foreach (Guy guy in guys) lol What ? Ok how does this line function. What is the function of 'in'? Why is guy there when it is never mentioned before?

Is CheckedChanged an event ?

