DCIT 318

ASSIGNMENT 1

GRADE CALCULATOR

using System;

namespace GradeCalculator

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter a numerical grade between 0 and 100: ");

string input = Console.ReadLine();

if (int.TryParse(input, out int grade))

{

string letterGrade = GetLetterGrade(grade);

Console.WriteLine($"The corresponding letter grade is: {letterGrade}");

}

else

{

Console.WriteLine("Invalid input. Please enter a valid numerical grade.");

}

}

static string GetLetterGrade(int grade)

{

if (grade >= 90)

{

return "A";

}

else if (grade >= 80)

{

return "B";

}

else if (grade >= 70)

{

return "C";

}

else if (grade >= 60)

{

return "D";

}

else

{

return "F";

}

}

}

}

TICKET PRICE CALCULATOR

using System;

namespace TicketPriceCalculator

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter your age: ");

string input = Console.ReadLine();

if (int.TryParse(input, out int age))

{

int ticketPrice = CalculateTicketPrice(age);

Console.WriteLine($"The ticket price is: GHC{ticketPrice}");

}

else

{

Console.WriteLine("Invalid input. Please enter a valid age.");

}

}

static int CalculateTicketPrice(int age)

{

if (age <= 12 || age >= 65)

{

return 7;

}

else

{

return 10;

}

}

}

}

TRIANGULAR TYPE IDENTIFIER

using System;

namespace TriangleTypeIdentifier

{

class Program

{

static void Main(string[] args)

{

Console.Write("Enter the length of side A: ");

double sideA = double.Parse(Console.ReadLine());

Console.Write("Enter the length of side B: ");

double sideB = double.Parse(Console.ReadLine());

Console.Write("Enter the length of side C: ");

double sideC = double.Parse(Console.ReadLine());

string triangleType = IdentifyTriangleType(sideA, sideB, sideC);

Console.WriteLine($"The triangle is {triangleType}");

}

static string IdentifyTriangleType(double sideA, double sideB, double sideC)

{

if (sideA == sideB && sideB == sideC)

{

return "Equilateral";

}

else if (sideA == sideB || sideA == sideC || sideB == sideC)

{

return "Isosceles";

}

else

{

return "Scalene";

}

}

}

}