LAB SHEET 7
(Exception Handling)

1. **Developer is writing code for dividing two numbers. If the user enters 0 in the second number, an exception should be raised. Handle the exception with the appropriate code.**

```csharp
namespace ConsoleApp10
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int a, b;

            Console.WriteLine("Enter first number");
            a= Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter second number");
            b= Convert.ToInt32(Console.ReadLine());
            try
            {
                int c = a/b;
                Console.WriteLine("Answer is  " + c);
            }
            catch(Exception e)
            {
                Console.WriteLine("Second Number  cannot be zero");
                //Console.WriteLine(e.ToString());
            }
            Console.ReadKey();
        }

    }
}
```

```
Enteer first number
10
Enter second number
0
Second Number  cannot be zero
```

```
Enteer first number
10
Enter second number
2
Answer is  5
```

2. **Admin executive of the university is entering the university name for the students. If he enters the name wrongly, exception should be raised.**

```
namespace ExceptionHandlingDemo
{
    internal class Collegename
    {
        static void Main()
        {
            string s;
            Console.WriteLine("Enter your university name");
            try
            {
                s = Console.ReadLine();
                if (s.ToUpper() == "PRESIDENCY")
                {
                    Console.WriteLine("Welcome");
                }
                else
                {
                    throw new Exception("You have entered wrong input");
                }
            }
            catch (Exception e)
            {
                Console.WriteLine(e.Message);
            }
            Console.ReadKey();
        }
    }
}
```

Assessment 7a:
Raise the exception not eligible for voting if the age is less than 18.

Assessment 7b:

A University has decided promotion criteria for students. According to criteria a student cannot be promoted to next academic year if he has less than 4.5 CGPA. A developer is trying to implement this situation using exception handling by reading the necessary details of all 6 subjects

Hint: CGPA = (Percentage / 9.5)