# תרגיל מס' Assemblies – 1 ושפת

## חלק 1 – גשש בלש

1. האם הקובץ הזה הוא NET Assembly.? כן. האם קובץ זה מהווה NET PE.? כן.

נימוק:

כיוון שניתן לפתוח את הקובץ הנ"ל דרך ildasm, הקובץ הינו NET ASSEMBLY. היות וניתן לראות בiladsm את ה- Header, Manifest, Instructions הקובץ הוא PE וגם עצם זה שאפשר להריץ את הקובץ בפני עצמו מצביע על כך שקיימת פונק' main שמהווה את הנק' כניסה לתכנית.

### :Assembly -תארו את

.B20 Ex01 − שמו •

.20.2.1.29377 – גרסא

assembly B20\_Ex01 של scopeתחת Manifest ●

אחרים הוא משתמש? באילו

.2.0.0.0 אם: mscorlib שם: ברסא: 2.0.0.0 אם: System.Xml

.2

Type (Struct/Class/Enum)	Name	Members (Methods, Fields)
Class	B2020.Ex01.DemosManager	<ul> <li>public void .ctor() - Constructor</li> <li>public static void RunDemoApp()</li> <li>private static void displayOptions()</li> <li>private static bool manageLogin()</li> <li>private static         B2020.Ex01.DemosManager/eDemoProgram         retrieveUserSelection()</li> </ul>
Class	Programs	<ul> <li>public void .ctor() - Constructor</li> <li>public static void RunBinaryCheck ()</li> <li>public static void RunSandMachineProgram ()</li> <li>private static bool checkIfAscendingSeries (string)</li> <li>private static bool checkIfDescendingSeries (string)</li> <li>private static void drawSandMachine (int32)</li> <li>private static int32 generateLineOfAstrix (class [mscorlib]System.Text.StringBuilder, int32, int32)</li> <li>private static string getInputFromUser (int32)</li> </ul>
Enum	eDemoProgram	<ul> <li>public void .ctor() - Constructor</li> <li>public static int32 BinaryCheck()</li> <li>public static int32 Quit()</li> <li>public static int32 StarClock()</li> <li>public static void Value()</li> </ul>

Class	B2020.Ex01.Program	public void .ctor() - Constructor
		<ul><li>public static void Main()</li></ul>

.DN-Ex01-B2020 – שם משתמש סיסמא – C# rocks!

# חלק 2 – תכנות בסיסי (Screenshots)

#### 1. סדרות בינאריות

```
■ C:\GitHub\IDC\C#\Assignment 1\B20 Ex01 Roe 313510489 Omer 206126138\B20_Ex01_1\bin\Debug\B20_Ex01_1.exe
Enter 3 positive 9 length binary numbers follow by ENTER
First number:
111011000
Second number:
111010010
Third number:
111010100
Your numbers are: '472', '466' and '468'
*****
Statics:
Average zeros is: 4.00
Average ones is: 5.00
There are '0' numbers which is power of 2
There are '1' numbers which is increasing serires in decimal
Maximum number is: 472
Minimum number is: 466
That's it, press any letter to exit
```

```
Enter 3 positive 9 length binary numbers follow by ENTER

first number:
011010110

Second number:
110011110

Third numbers are: '214', '414' and '382'

**********

Statics:
*********

Average zeros is: 3.00
Average ones is: 6.00

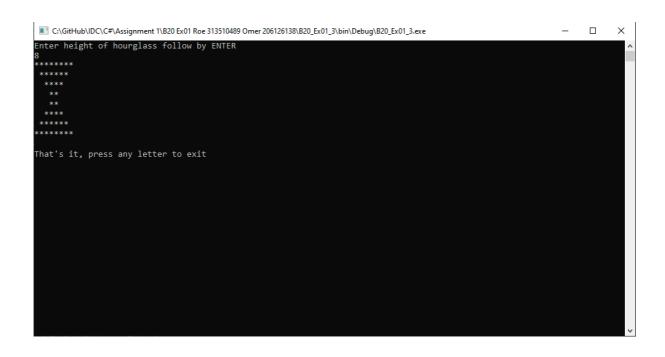
There are '0' numbers which is increasing serires in decimal

Maximum number is: 414
Minimum number is: 214

That's it, press any letter to exit
```

### 2. שעון חול למתחילים

## 3. שעון חול למתקדמים



#### 4. ניתוח מחרוזת

```
■ C:\GitHub\\DC\C≠\Assignment1\B20 Ex01 Roe 313510489 Omer 206126138\B20_Ex01_4\bin\Debug\B20_Ex01_4.exe — □ ×

Enter 8 length string made up of numbers or english letters follow by ENTER
2b45bb2r
Input is not valid, Please try again.
AaAaAaAa

Is input is a polyndrom: False

Sum of capital letters in input: 4

That's it, press any letter to exit
```

■ C:\GitHub\IDC\C#\Assignment 1\B20 Ex01 Roe 313510489 Omer 206126138\B20_Ex01_4\bin\Debug\B20_Ex01_4.exe	_	×
Enter 8 length string made up of numbers or english letters follow by ENTER aRtootRa		^
Is input is a polyndrom: True		
Sum of capital letters in input: 2		
That's it, press any letter to exit		
		~

■ C:\GitHub\IDC\C#\Assignment 1\B20 Ex01 Roe 313510489 Omer 206126138\B20_Ex01_4\bin\Debug\B20_Ex01_4.exe	_	×
Enter 8 length string made up of numbers or english letters follow by ENTER 84844848		^
Is input is a polyndrom: True		
Is number divisble with 5: False		
That's it, press any letter to exit		
		~

#### 5. סטטיסטיקות מספרים

```
Enter a 9 digit positive number follow by ENTER
asdasdddd
Number is not valid, Please try again.
123333
Number is not valid, Please try again.
978572083
*******

The biggest digit in the number is: 9

The smallest digit in the number is: 0

The number of digits that divisible by 3 is: 3

The number of digits which grater then last digit is: 6

That's it, press any letter to exit
```