## Limbajul: C#

Student propunător:Ungureanu Mihai-Laurentiu Grupa:227 Email:thegamer.mihai@gmail.com

class Program

{

delegate string StringProcessing(string s);

static string A(string s)

{

return s.ToLower();

}

string B(string s)

{

Console.Write("hehe");

return "haha";

}

static string C(string s)

{

return A(s).ToUpper();

}

static void Main(string[] args)

{

StringProcessing strproc = new StringProcessing(A);

strproc += B;

strproc += C;

Console.WriteLine(strproc("hihi"));

Console.ReadKey();

}

}

* Variante de răspuns:

1. hehe
2. HIHI
3. Programul nu compileaza, o referinta la obiect este necesara pentru acces la metoda B
4. heheHIHI

* **Justificare raspuns (campul Explanation in Qlearn) :**

Metoda B trebuie declarata in acest caz ca fiind statica. In cazul in care ar fi declarata corect, s-ar afisa „heheHIHI”, deoarece doar valoarea returnata de C ajunge in Console.Writeline. Functia B nefiind statica, codul nu poate compila, cu mesajul de eroare:

Error CS0120 An object reference is required for the non-static field, method, or property 'Program.B(string)'

* Identificati conceptele din curs care au legatura cu grila propusa: Multicast Delegates, curs 11-12
* **Referinte web:** [**https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/delegates/how-to-declare-instantiate-and-use-a-delegate**](https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/delegates/how-to-declare-instantiate-and-use-a-delegate)
* Dificultate: (Easy, **Medium**, Difficult)