Komponentowe systemy rozproszone 2024/25

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Wersja 1.0

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1. Zadanie 1

1.1. Wynik

Figure 1: Zadanie 1 - Rezultat

Figure 2: Zadanie 1 - Kod (Zadanie wykonane wykorzustując opcję "Generate asynchronous operations")

2. Zadanie 2

2.1. Wynik

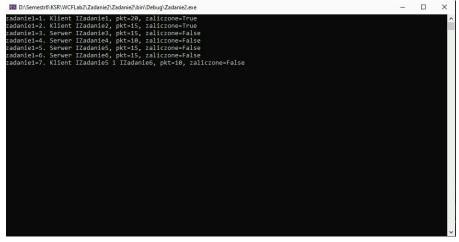


Figure 3: Zadanie 1 - Rezultat

Figure 4: Zadanie 1 - Kod (Zadanie wykonane wykorzustując opcję "Generate task-based operations")

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using Zadanie2.ServiceReference1;
using System.ServiceModel;
namespace Zadanie2
    class Program
        static async Task Main(string[] args)
            var client_2 = new Zadanie2Client(new InstanceContext(new
Zadanie2Callback()));
            await client 2.PodajZadaniaAsync();
            Console.ReadKey();
        }
        class Zadanie2Callback : IZadanie2Callback
            public void Zadanie([MessageParameter(Name = "zadanie")] string zadanie1, int
pkt, bool zaliczone)
                Console.WriteLine($"zadaniel={zadaniel}, pkt={pkt},
zaliczone={zaliczone}");
        }
    }
}
```

3. Zadanie 3 i 4

3.1. Wynik



Figure 5: Zadanie 3 i 4 - Rezultat

Figure 6: Zadanie 3 i 4 - Kod (część 1)

```
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heat.Open();
Connais - Read();
heat.Open();
```

Figure 7: Zadanie 3 i 4 - Kod (część 2)

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using Zadanie3_4;
using KSR_WCF2;
using System.ServiceModel;
namespace Zadanie3 4
{
    class Program
        [ServiceBehavior(InstanceContextMode = InstanceContextMode.PerSession)]
        class Serwer : IZadanie3, IZadanie4
            private int counter = 0;
            public void TestujZwrotny()
            {
                var callbackChannel =
OperationContext.Current.GetCallbackChannel<IZadanie3Zwrotny>();
                for(int x = 0; x < 31; x++)
                    callbackChannel.WolanieZwrotne(x, x * x * x - x * x);
                }
            }
            int IZadanie4.Dodaj(int v)
                counter += v;
                return counter;
            }
            void IZadanie4.Ustaw(int v)
                counter = v;
            }
        static void Main(string[] args)
            var host = new ServiceHost(typeof(Serwer), new Uri[] { new Uri("http://
localhost:1100") });
            host.AddServiceEndpoint(typeof(IZadanie3), new
                NetNamedPipeBinding(),
                "net.pipe://localhost/ksr-wcf2-zad3");
            host.AddServiceEndpoint(typeof(IZadanie4), new
                NetNamedPipeBinding(),
                "net.pipe://localhost/ksr-wcf2-zad4");
            host.Open();
            Console.Read();
            host.Close();
        }
```

```
}
```

4. Zadanie 5 i 6

4.1. Wynik

Figure 8: Zadanie 5 i 6 - Rezultat

```
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Figure 9: Zadanie 5 i 6 - Kod

```
namespace WcfService1
{
    // NOTE: You can use the "Rename" command on the "Refactor" menu to change the class
name "Servicel" in code, svc and config file together.
    // NOTE: In order to launch WCF Test Client for testing this service, please select
Servicel.svc or Servicel.svc.cs at the Solution Explorer and start debugging.
    public class Servicel : IZadanie5, IZadanie6
    {
        string IZadanie5.ScalNapisy(string a, string b)
        {
            return a + b;
        }
        public void Dodaj(int a, int b)
        {
            var channel = OperationContext.Current.GetCallbackChannel<IZadanie6Zwrotny>();
            channel.Wynik(a + b);
        }
    }
}
```

5. Zadanie 7

5.1. Wynik

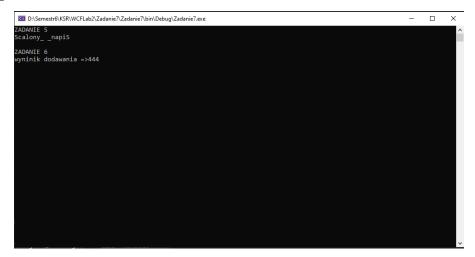


Figure 10: Zadanie 7 - Rezultat

Figure 11: Zadanie 7 - Kod

```
namespace Zadanie7
{
    class Program
        static void Main(string[] args)
            var client5 = new Zadanie5Client();
            var client6 = new Zadanie6Client(new InstanceContext(new Zadanie6Callback()));
            Console.WriteLine(("ZADANIE 5 \n") + client5.ScalNapisy("Scalony_", "
_napiS"));
            Console.WriteLine();
            client6.Dodaj(111, 333);
            Console.ReadKey();
        }
        class Zadanie6Callback : IZadanie6Callback
            public void Wynik(int wyn)
                Console.WriteLine($"ZADANIE 6 \nwyninik dodawania =>{wyn}");
            }
        }
   }
}
```