TEAM 1

TEAM LEAD:

o ARUN S V

TEAM MEMBERS:

- o DEEPIKA J
- o NANDHINI M
- **OKEERTHANA S**

LAB PROGRAMS: 07/06/2022

QUESTION 1

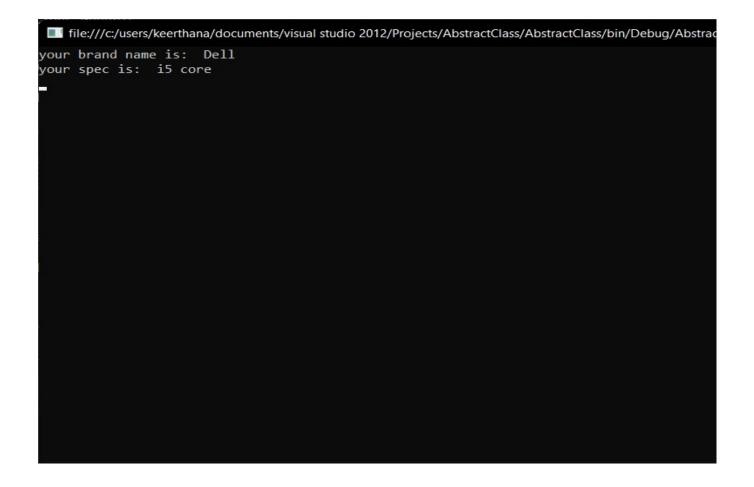
Write a program in c# to generate an abstract class A also class B inherits the class A. generate the object for

class B and display the text "call me from B"

PROGRAM:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace AbstractClass
    abstract class Laptop
           protected string Brand;
        protected string spec ;
        public abstract void display();
    class SampleClass_B : Laptop
        public SampleClass_B()
            Brand = "Dell";
            spec = "i5 core";
        public override void display()
            Console.WriteLine("your brand name is: " + Brand);
            Console.WriteLine("your spec is: " + spec);
    }
    class Program
        static void Main(string[] args)
            SampleClass_B obj = new SampleClass_B();
            obj.display();
            Console.ReadLine();
        }
    }
}
```

OUTPUT:



QUESTION 2

Write a c# program in which you will declare two interface sum and Add inherits these interface through class A1

and display their content.

PROGRAM:

```
using System;
namespace Create
    interface i1
        void Get();
    interface i2
        void Sum();
    }
    class A1 : i1 ,i2
        int a,b,c;
        public void Get()
            Console.Write("Enter a number : ");
            a = int.Parse(Console.ReadLine());
            Console.Write("Enter another number : ");
            b = int.Parse(Console.ReadLine());
        }
        public void Sum()
            c = a + b;
            Console.WriteLine("Addition is "+c);
        public void Show()
            Get();
            Sum();
    }
    class Program
        static void Main(string[] args)
            A1 a1 = new A1();
            a1.Show();
        }
    }
```

OUTPUT:

Microsoft Visual Studio Debug Console
Enter a number : 5 Enter another number : 6 Addition is 11
D:\DISK-B\.NET\dotnet\Create\bin\Debug\net6.0\Create.exe (process 16224) exited with code 0. To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the consol Press any key to close this window

QUESTION 3

Write a program in c# if number is less than 10 and greater than 50 it generate the exception out of range. Else it displays the square of number.

PROGRAM:

```
using System;
class RangeException : Exception
    public RangeException(string mss) : base(mss)
    }
namespace SquareRange
    class Program
        static void Main(string[] args)
            Console.Write("Enter a number : ");
            int num = int.Parse(Console.ReadLine());
            try
                if((num < 10 )|| (num > 50))
                    throw new RangeException("Number is out of Range");
                else
                    int sqr = num * num;
                    Console.WriteLine("Square of {0} is {1}",num,sqr);
            }
            catch(RangeException e)
                Console.WriteLine(e.Message);
            finally
                Console.WriteLine("Program runs successfully");
        }
    }
}
```

OUTPUT:

Microsoft Visual Studio Debug Console Enter a number : 15 Square of 15 is 225 Program runs successfully D:\DISK-B\.NET\dotnet\Create\bin\Debug\net6.0\Create.exe (process 18768) exited To automatically close the console when debugging stops, enable Tools->Options-> Press any key to close this window . . .