

DAY 10 : Evening Assignment

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Assignment 1

Write down the 2 main uses of abstract class by using an example as discussed in the session

Answer :

- Abstract class is primarily used for Code-Reusability.
- All the normal methods in the abstract class can be in the derived class.
- However, abstract methods in abstract class must be overloaded and overridden in the derived class (or) Enforce the derived class, override the abstract methods.

Assignment 2

Write a C# code for demonstrating an abstract class

Answer :

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace abstract_class
{
    //Abstract class-----
    abstract class Salary
    {
        //For calculating PF -----
        public int GetPF(int basic)
        {
            return 12 * basic / 100;
        }
        //For calculating HRA-----
    }
}
```

```

    public int GetHRA(int basic)
    {
        return 40 * basic / 100;
    }
    //For Calculating CA-----
    public abstract int GetCA();

    //For Calculating SA-----
    public abstract int GetSA();

}
// Facebook Salary Allowance-----
class FacebookMeta : Salary
{
    public override int GetCA()
    {
        return 4000;
    }
    public override int GetSA()
    {
        return 5000;
    }
}
// Amazon Salary Allowance-----
class Amazon : Salary
{
    public override int GetCA()
    {
        return 8000;
    }
    public override int GetSA()
    {
        return 9000;
    }
}
// Netflix Salary Allowance-----
class Netflix : Salary
{
    public override int GetCA()
    {
        return 10000;
    }
}

```

```

        public override int GetSA()
        {
            return 12000;
        }
    }

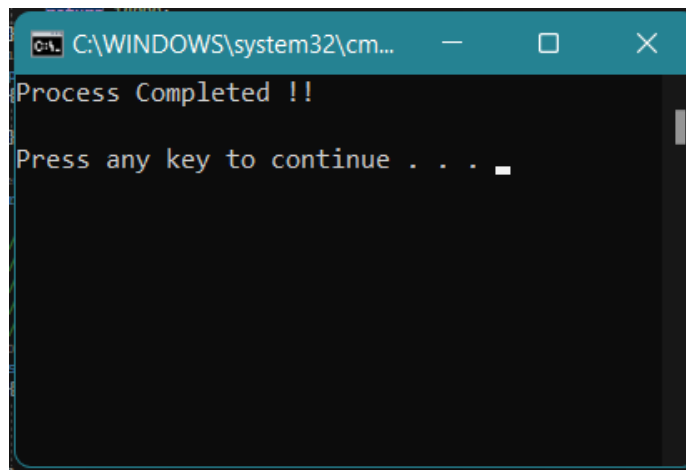
    // Google Salary Allowance-----
    class Google : Salary
    {
        public override int GetCA()
        {
            return 14000;
        }
        public override int GetSA()
        {
            return 16000;
        }
    }

    internal class Program
    {
        // FANG Salary Allowances-----
        // FacebookMeta
        // Amazon
        // Netflix
        // Google
        static void Main(string[] args)
        {
            Console.WriteLine("Process Completed !!");
            Console.ReadLine();

        }
    }
}

```

Output :



```
C:\WINDOWS\system32\cm...  
Process Completed !!  
Press any key to continue . . .
```