nations benefits

1.Research and try to understand what is Abstraction

Abstraction is the process of hiding certain details means hiding Method implementation (Method Body) and showing only essential information means showing Method Signature (Method Head to the user.

Abstraction can be achieved with either **abstract classes** or **Interfaces.**

2.Write the 2 main uses of Abstract class by using the example discussed in the class.

1. Abstract Class acts like a Template.
2. In abstract class, we can't be used to create Object. It must be inherited from another class.
3. Abstract method only can be used in Abstract class. This method does not have a method body. The body is implemented by sub class.
4. Abstraction is used to code re-usability.

3.Create one more example of your choice to demonstrate abstract class

```
// Abstract class
abstract class Flower
{
  // Abstract method (does not have a body)
  public abstract void flowerName();
  // Regular method
  public void flowerColour)
  {
    Console.WriteLine("xyz");
  }
}

// Derived class (inherit from Flower)
class Rose : Flower
{
  public override void flowerName()
```

```csharp
  {
    // The body of flowername() is provided here
    Console.WriteLine("the Rose colour : red");
  }
}

class Program
{
  static void Main(string[] args)
  {
    Rose f1 = new Rose(); // Create a Rose object
    f1.flowerName();  // Call the abstract method
    f1.FlowerColour();  // Call the regular method
  }
}
```