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LAB program

Pooja K

IBM19C2111

// Generics program

```
- class TwoGenerics <T, V>  
  {  
    T ob1;  
    V ob2;
```

```
TwoGenerics(T ob1, V ob2)  
  {
```

```
    this.ob1 = ob1;  
    this.ob2 = ob2;  
  }
```

```
T getOb1()  
  {  
    return ob1;  
  }
```

```
V getOb2()  
  {  
    return ob2;  
  }
```

```
void showTypes()  
  {
```

```
    System.out.println("Type of T is: " +  
        ob1.getClass().getName());
```

```
    System.out.println("Type of V is: " +  
        ob2.getClass().getName());  
  }
```

```
- }
```

```
class Gene
{
    public static void main (String args[]) {
        TwoGenerics<Integer, String> obj = new
            TwoGenerics<Integer, String>(45, "Pooja");
        obj.showTypes();
        int integerValue = obj.getObj1();
        System.out.println("The given Integer is: " +
            integerValue);
        String str = obj.getObj2();
        System.out.println("The given String is: "
            + str);
    }
}
```

```
class TwoGenerics<T, V>
{
    T ob1;
    V ob2;
    TwoGenerics(T ob1, V ob2)
    {
        this.ob1 =ob1;
        this.ob2 =ob2;
    }
    T getOb1()
    {
        return ob1;
    }
    V getOb2()
    {
        return ob2;
    }
    void showTypes()
    {
        System.out.println("Type of T is : " + ob1.getClass().getName());
        System.out.println("Type of V is : " + ob2.getClass().getName());
    }
}

class Gene
{
    public static void main(String args[])    {
        TwoGenerics<Integer, String> obj = new TwoGenerics<Integer, String>(45, "Pooja");
        obj.showTypes();
        int integerValue = obj.getOb1();
        System.out.println("The given Integer is : " + integerValue);
        String str = obj.getOb2();
        System.out.println("The given String is : " + str);
    }
}
```

C:\Windows\System32\cmd.exe

C:\Users\Pooja K\Downloads>javac Gene.java

C:\Users\Pooja K\Downloads>java Gene

Type of T is : java.lang.Integer

Type of V is : java.lang.String

The given Integer is : 45

The given String is : Pooja

C:\Users\Pooja K\Downloads>

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