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Class: 3A

Lab 2 Question: Develop a Generics class with two type parameters

Program:

Generics

Develop a Generics class with Two Type Parameters.

```
import java.lang.*;
import java.util.*;

class Pair <First, Second> {
    First obj1;
    Second obj2;

    Pair (First x, Second y)
    {
        obj1 = x;
        obj2 = y;
    }

    First getobj1() {
        return obj1;
    }

    Second getobj2() {
        return obj2;
    }

    void showType() {
        System.out.println ("Type of First = " + obj1.getClass().getName());
        System.out.println ("Type of Second = " + obj2.getClass().getName());
    }
}
```

```
class Main {
```

```
    public static void main (String args[])  
    {
```

```
        Pair <Integer, String> pairObj;
```

```
        pairObj = new Pair <Integer, String> (13, "Akram");
```

```
        int x = pairObj.getFirst();
```

```
        System.out.println("The value of x = " + x);
```

```
        System.out.println("The value of y = " + y);
```

```
        pairObj.showType();
```

```
    }  
}
```

Output:

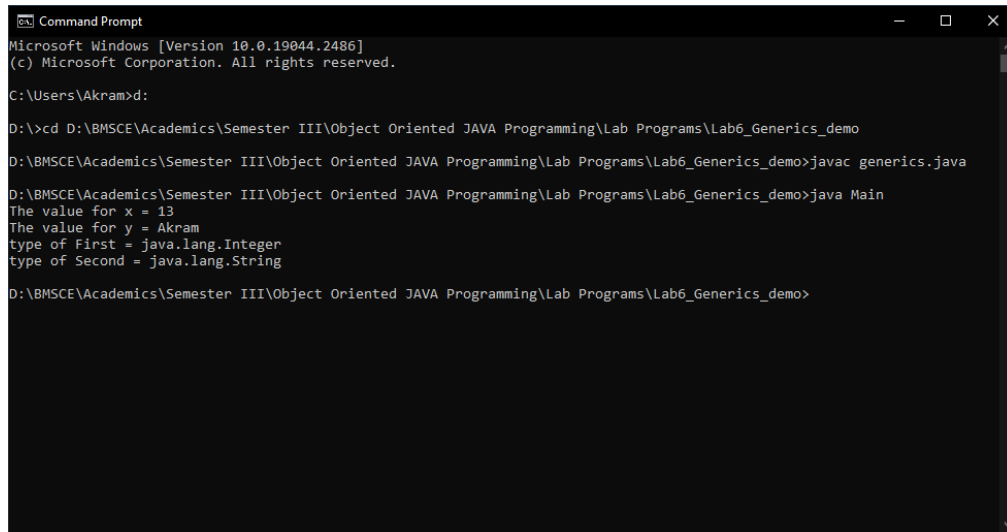
The value for x = 13

The value for y = Akram

type of First = java.lang.Integer

type of Second = java.lang.String

Output:



```
Command Prompt
Microsoft Windows [Version 10.0.19044.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Akram>d:

D:\>cd D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab6_Generics_demo
D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab6_Generics_demo>javac generics.java
D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab6_Generics_demo>java Main
The value for x = 13
The value for y = Akram
type of First = java.lang.Integer
type of Second = java.lang.String
D:\BMSCE\Academics\Semester III\Object Oriented JAVA Programming\Lab Programs\Lab6_Generics_demo>
```