

Experiment Number: 8 (Package and Access Modifiers)

Name	Shreya Shetty
UID	2019140059
Class	TE IT
Batch	D
Subject	OOP Lab

Aim: Suppose you have a string like this:"Once there was a woman name:angelina: and a man name:tony: and their friend name:jane: and ...". Inside of a long text there are little "name:" sections. Write code to find and print all the names. Create a Package

Program:

Exp8.java

```
package oopExp8;
import java.util.*;
import oopExp8.namepack.*;

class Name extends FindName
{
    void print(String str)
    {
        printNames(str);
    }
}

public class Exp8
{
    public static void main(String[] args)
    {
        Scanner sc= new Scanner(System.in);
        System.out.print("Enter Text with Names: ");
        String str= sc.nextLine();
        FindName obj=new FindName();
        System.out.println(obj.msg);
        Name obj2=new Name();
        obj2.print(str);
        sc.close();
    }
}
```

FindName.java

```

package oopExp8.namepack;
import java.util.*;

public class FindName {
    private List<String> list=new ArrayList<String>();
    public String msg="\n\nThe following names were extracted from the given
text:";
    protected void printNames(String string)
    {
        int i = 0;
        // System.out.println(msg);
        while (true)
        {
            int found = string.indexOf("name:", i);
            if (found == -1)
                break;
            int start = found + 5; // start of actual name
            int end = string.indexOf(":", start);
            list.add(string.substring(start, end));
            i = end + 1;
        }
        for(i=0; i<list.size(); i++)
        {
            System.out.println("\t"+(i+1)+" . "+list.get(i));
        }
    }
}

```

Output:

```

PS D:\PROJECT_AND_CODES\Java> javac ./oopExp8/Exp8.java
PS D:\PROJECT_AND_CODES\Java> javac ./oopExp8/namepack/FindName.java
PS D:\PROJECT_AND_CODES\Java> java oopExp8.Exp8
Enter Text with Names: Once there was a woman name:Angelina: and a man name:Tony: and their friend name:Jane: and a gilir name:Shreya:

The following names were extracted from the given text:
1. Angelina
2. Tony
3. Jane
4. Shreya
PS D:\PROJECT_AND_CODES\Java> java oopExp8.Exp8
Enter Text with Names: Hello! My name is name:Shreya Shetty: and my sister's name is name:Shruti Shetty:

The following names were extracted from the given text:
1. Shreya Shetty
2. Shruti Shetty
PS D:\PROJECT_AND_CODES\Java> █

```