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**Roll no.** 01

**Program based on the concept of Jagged array.**

```
//code
```

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

```
class Friends {
```

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

```
        Scanner sc = new Scanner(System.in);
```

```
        String hobbies[][] = new String[10][];
```

```
        // reading
```

```
        for (int i=0 ; i<10 ; i++) {
```

```
            System.out.print("Enter number of hobbies of Friend "+(i+1)+" : ");
```

```
            int numHobbies = sc.nextInt();
```

```
            sc.nextLine();
```

```
            hobbies[i] = new String[numHobbies];
```

```
            for (int j=0 ; j<numHobbies ; j++) {
```

```
                System.out.print("Enter hobby number "+(j+1)+" : ");
```

```
                hobbies[i][j] = sc.nextLine();
```

```
                //sc.nextLine();
```

```
            }
```

```
        }
```

```
        // displaying
```

```
        for (int i=0 ; i<10 ; i++) {
```

```
            System.out.println();
```

```
            System.out.print("Hobbies of Friend "+(i+1)+" : ");
```

```
    for (int j=0 ; j<hobbies[i].length ; j++) {  
  
        System.out.print(hobbies[i][j] + ", ");  
  
    }  
  
    System.out.println();  
    System.out.println("*****");  
  
}  
  
}  
  
}
```

//output

```
E:\Aamir\Sem-3\OOPM\Jagged Array>javac Friends.java
```

```
E:\Aamir\Sem-3\OOPM\Jagged Array>java Friends
```

```
Enter number of hobbies of Friend 1 : 2
```

```
Enter hobby number 1 : Football
```

```
Enter hobby number 2 : Music
```

```
Enter number of hobbies of Friend 2 : 3
```

```
Enter hobby number 1 : Eating
```

```
Enter hobby number 2 : Also eating
```

```
Enter hobby number 3 : Eating yet again
```

```
Enter number of hobbies of Friend 3 : 1
```

```
Enter hobby number 1 : Moon walking
```

```
Enter number of hobbies of Friend 4 : 2
```

```
Enter hobby number 1 : Games
```

```
Enter hobby number 2 : Movies
```

```
Enter number of hobbies of Friend 5 : 1
```

```
Enter hobby number 1 : Existing
```

```
Enter number of hobbies of Friend 6 : 2
```

```
Enter hobby number 1 : Thinking
```

```
Enter hobby number 2 : Being useless
```

```
Enter number of hobbies of Friend 7 : 2
```

```
Enter hobby number 1 : Sitting
```

```
Enter hobby number 2 : Sitting alone
```

```
Enter number of hobbies of Friend 8 : 1
```

```
Enter hobby number 1 : Running
```

```
Enter number of hobbies of Friend 9 : 2
```

```
Enter hobby number 1 : Star gazing
```

```
Enter hobby number 2 : doing summer sault
```

```
Enter number of hobbies of Friend 10 : 1
```

```
Enter hobby number 1 : Thinking that life means something
```

Hobbies of Friend 1 : Football, Music,  
\*\*\*\*\*

Hobbies of Friend 2 : Eating, Also eating, Eating yet again,  
\*\*\*\*\*

Hobbies of Friend 3 : Moon walking,  
\*\*\*\*\*

Hobbies of Friend 4 : Games, Movies,  
\*\*\*\*\*

Hobbies of Friend 5 : Existing,  
\*\*\*\*\*

Hobbies of Friend 6 : Thinking, Being useless,  
\*\*\*\*\*

Hobbies of Friend 7 : Sitting , Sitting alone,  
\*\*\*\*\*

Hobbies of Friend 8 : Running,  
\*\*\*\*\*

Hobbies of Friend 9 : Star gazing, doing summer sault,  
\*\*\*\*\*

Hobbies of Friend 10 : Thinking that life means something,  
\*\*\*\*\*

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