Name of the Course : Complete Java SE8 Developer Bootcamp

Level : Easy

Tool Stack : Java8 and Junit5

Problem Statement : Provide a code solution to create students email id based on their name using Java 8 enhance for each loop and split function.

Description : Due to epidemic situation , online classes are taking place for TSR School in the city. The school authority creates mail account for every student for providing study material, conduct examination, submission of projects etc. The mail id follows the rule- if the student name is Tracy Williams then mail id will be [tracy.williams@tsr.edu](mailto:tracy.williams@tsr.edu) . Or for student name is Mary Ann Milton, mail id will be [mary.ann.milton@tsr.edu](mailto:mary.ann.milton@tsr.edu) . You need to write down a java application to accept the name in any case and create the mail id. Create only one class Main with two methods :-

1.public String createMailAccount(String studentName) which accepts a student name and then creates student mail id based on the rule, returns the mail id.

2. public static void main(String arg[]) for accepting student name , invokes the createMailAccount method and finally displays the student’s mail id.

Code:

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** String createEmailAccount(String studentName)

{

studentName=studentName.toLowerCase();

String nameArray[]=studentName.split("\\s");

String mail=**null**;

**for**(String str:nameArray)

{

**if**(mail==**null**)

mail=str;

**else**

mail=mail+"."+str;

}

mail=mail+"@tsr.edu";

**return** mail;

}

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

Scanner scanner=**new** Scanner(System.***in***);

System.***out***.println("Enter Student Name:");

String studentName=scanner.nextLine();

System.***out***.println("The Mail Id:"+*createEmailAccount*(studentName));

}

}

Junit Testing

**import** **static** org.junit.Assert.\*;

**import** org.junit.Test;

**public** **class** MainTest {

@Test

**public** **void** testCreateEmailAccount() {

String name1="Stella Frank";

String name2="Loren Mary Joseph";

*assertEquals*("stella.frank@tsr.edu",Main.*createEmailAccount*(name1));

*assertEquals*("loren.mary.joseph@tsr.edu",Main.*createEmailAccount*(name2));

}

}

Test Data1

Enter Student Name:

Stella Frank

The Mail Id:stella.frank@tsr.edu

Test Data2

Enter Student Name:

Loren Mary Joseph

The Mail Id:loren.mary.joseph@tsr.edu

Learning outcome: Participant could able to learn how to use the for each loop and String.split().