Create email account

1. Generate email with syntax – [firstname.lastname@department.company.com](mailto:firstname.lastname@department.company.com)
2. Determine department (sales, accounting …) blank if none
3. Random string for a password

Initial setup

Step 1 In Eclipse Java project, create a new package and name it as emailapp

Step 2 In emailapp package, create two classes

1. EmailApp –main class (public static void main (String [] args)

2. Email – This class is going to create the objects

Email Class (This class is going to create the objects)

This class is going to start with package name and class definition as

Package emailapp;

Public class Email {

}

Inside Public class Email parenthesis, we are going to mention the variables by referring to Create email account points. We will mention those variables as private as an act of encapsulation so that other classes would not be able to access those variables and we can access those variables via class API later:-

Private String firstName;

Private String lastName;

Private String password;

Private int passwordLength = 10;

Private String department;

Private int mailboxCapacity;

Private String alternateEmail;

Now we need to implement constructors to initialize those variables

Create Constructor to receive the First Name and Last Name

Public Email (String firstName, String lastName) //Email is class name

{

this.firstName = firstName; //this refer to class of a variable which means the current class, i.e Emailclass

Then navigate back to main class

Package emailapp;

Public class EmailApp{

Public static void main(String[] args){

Email em1 = new Email (‘Satarupa’, ‘Sengupta’)

}

Constructor for department

Here we are going to use set method to ask for department name as input from user and create a method called setDepartment() to do so

this.department = setDepartmen();

system.out.println(“department: “ +this.department); //This is created just to see the output of the entered department, actual program requires only the output of created emailid

{

private String setDepartment () {

System.out.println (“Enter the department /n1. Sales /n2. Development /n3. Accounting /nAny other value. None”);

Scanner in = new Scanner(system.in) // This is for input

depchoice = In.nextInt(); //Here user can input 1, 2, 3, 4…. Integar value and store the value in variable depChoice

Now we are going to run if – else – elseif statement

If (depChoice == 1)

{

return “sales”;

}

else if (depChoice == 2)

{

return “Development”;

}

else if (depChoice == 3)

{

return “Accounting”;

}

else

{

return “”;

}

}

Constructor for random password

This.password = randomPassword(passwordLength);

System.out.println (“your random password is : “ +this.password);

private String randomPassword (int length) {

Now variable passwordSet will contain all the possible alphanumeric and special chars values

String passwordSet = “ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789:;”’<>,.?/{[}]|\-\_`~”;

Char[] password = new char[length];

Now we will run a for loop from 0 to length of password and generate a random value for each character of password using math.random function

For (int i=0; i<length; i++) {

Int rand = (int) (Math.random() \* passwordSet.length()); //I did not understand the purpose behind doing this. Here we are casting math.random as integer then we are multiplying it by the length of password set

password[i] = passwordset.charAt(rand); //In password[] array in ith position, we are storing the random value generated and stored in integer variable rand

}

return new String (password); //changes password[i]array to string value

Constructor to set the mailbox capacity

Constructor for alternate email

Constructor for password change