# CORE JAVA PROJECT

**PROJECT TITLE:**   Email Application

**AIM:**

- To achieve the Email Application Process without any interruptions.

**LANGUAGES:**

- JAVA

**SOFTWARE REQUIREMENTS:**

- Eclipse foe java

# INITIAL SETUP:

(In JAVA):

**Maven Project Name:**    Email Application.

**Package Name:**    Simple Email Project.

**Class Name:**    1.Email .
                   2.Email App.

# <u>Main Method Code:</u>

```java
package Simple_Email_Project;
import java.util.Scanner;
class Email
{
private String firstName;
private String lastName;
private String password;
private String email;
private int mailboxCapacity=500;
private int defaultPasswordLength=10;
```

```java
    private String alternateEmail;
    // private String companySuffix ="aeycompany.com";
    //Constructor to receive the first name and last name
    public Email(String firstName,String lastName){
    this.firstName=firstName;
    this.lastName=lastName;
    System.out.println("EMAIL CREATED : " + this.firstName + " " +
    this.lastName);
    //call a method that returns a random password
    this.password=randomPassword(defaultPasswordLength);
    System.out.println("Your password is:"+this.password);
    //combine elements to generate email
    email=firstName.toLowerCase()+lastName.toLowerCase()+"@gmail.com";
    System.out.println("Your mail is:" +email);
    public Email(int mailboxCapacity2) {
    }
    //Generate a random password
    private String randomPassword(int length){
    String passwordset="abcdefghijklmnopqrstuvwxyz123456789!@#$%";
    char[] password =new char[length];
    for (int i=0;i<length;i++)
    {
```

```java
int rand=(int) (Math.random() * passwordset.length());
password[i] = passwordset.charAt(rand);
}
return new String(password);
}
//set the mailbox capacity
public void setMailboxCapacity(int capacity)
{
this.mailboxCapacity=capacity;
}
//set the alternate email
public void SetAlternateEmail(String altEmail)
{
this.alternateEmail=altEmail;
}
//change the password
public void changePassword(String password)
{
this.password=password;
}
public int getMailboxCapacity()
{
return mailboxCapacity;
}
```

```java
        public String getAlternateEmail()
        {
        return alternateEmail;}
        public String getPassword()
        {
        return password;}
        public String showInfo(){
        return "DISPLAY NAME:"+firstName+" "+lastName+"\nCOMPANY Email:"
        +email+"\nMAILBOX CAPACITY:"+mailboxCapacity+"mb";
        }
        }
        public class EmailApp {
        public static void main(String[] args) {
        // TODO Auto-generated method stub
        Scanner sc = new Scanner (System.in);
        while (true) {
        System.out.println("**** Hello,WELCOME...****");
        System.out.println("!!>>>>To CREATE A MAIL ACCOUNT>>>>!!");
        System.out.println("=====================================");
        System .out.println("Choose Accout Type");
        System.out.println("1.For Myself");
        System.out.println("2.To manage a business");
        System.out.println("3.Exit");
        System.out.println("Enter your choice");
```

```java
int choice =sc.nextInt();
sc.nextLine();
switch (choice) {
case 1:
System.out.println("Enter first name");
String firstName=sc.next();
System.out.println("Enter last name");
String lastName=sc.next();
System.out.println("Enter your mailboxCapacity");
int mailboxCapacity=sc.nextInt();
Email em=new Email(firstName,lastName);
em.setMailboxCapacity(mailboxCapacity);
em.getPassword();
System.out.println(em.showInfo());
break;
case 2:
System.out.println("Enter first name");
String first_Name=sc.next();
System.out.println("Enter last name");
String last_Name=sc.next();
System.out.println("Enter your mailboxCapacity");
int mailbox_Capacity=sc.nextInt();
Email em1=new Email(first_Name,last_Name);
```

```java
em1.setMailboxCapacity(mailbox_Capacity);
em1.getPassword();
System.out.println(em1.showInfo());
break;
case 3:
System.out.println("Exiting.....!");
return;
default:
System.out.println("Invalid choice");
}
}
}
}
```

# Output:



```
EmailApp (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (16-Apr-2023, 2:30:05 pm) [pid: 1040]
**** Hello,WELCOME...****
!!>>>>To CREATE A MAIL ACCOUNT>>>>!!
=========================================
Choose Accout Type
1.For Myself
2.To manage a business
3.Exit
Enter your choice
```

```
EmailApp (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (16-Apr-2023, 2:30:05 pm)
3.Exit
Enter your choice
1
Enter first name
Pratiksha
Enter last name
Sabale
Enter your mailboxCapacity
56
EMAIL CREATED : Pratiksha Sabale
Your password is:1d@or$6lzp
Your mail is:pratikshasabale@gmail.com
DISPLAY NAME:Pratiksha Sabale
COMPANY Email:pratikshasabale@gmail.com
MAILBOX CAPACITY:56mb
**** Hello,WELCOME...****
!!>>>>To CREATE A MAIL ACCOUNT>>>>!!
==================================================
Choose Accout Type
1.For Myself
```

```
!!>>>>TO CREATE A MAIL ACCOUNT>>>>!!
=============================================
Choose Accout Type
1.For Myself
2.To manage a business
3.Exit
Enter your choice
2
Enter first name
Savita
Enter last name
Mule
Enter your mailboxCapacity
89
EMAIL CREATED : Savita Mule
Your password is:hqxik9fh56
Your mail is:savitamule@gmail.com
DISPLAY NAME:Savita Mule
COMPANY Email:savitamule@gmail.com
MAILBOX CAPACITY:89mb
```

# THANK YOU !