**EduBridge Learning Pvt.Ltd**

Center: Trichy

A Mini Project Report

On

**Email Application**

**PRESENTED BY**

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**INTRODUCTION**

You are an IT Support Administrator Specialist and are charged with the task of creating email accounts for new hires.

Your application should do the following:

* Generate an email with the following syntax: firstname.lastname@department.company.com
* Determine the department (sales, development, accounting), if none leave blank
* Generate a random String for a password
* Have set methods to change the password, set the mailbox capacity, and define an alternate email address
* Have get methods to display the name, email, and mailbox capacity

**SOURCE CODE**

**1.** **EmailApplication**

package EmailApp;

import java.util.Scanner;

public class EmailApplication{

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

// Creating a new employee (i.e. an object of the Email class)

Email em1 = new Email("Santhiya", "Murugan");

int choice = -1;

do {

System.out.println("\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\nENTER YOUR CHOICE\n1.Show Info\n2.Change Password"

+ "\n3.Change Mailbox Capacity\n4.Set Alternate Email\n5.Exit");

choice = s.nextInt();

switch(choice) {

case 1:

em1.getInfo();

break;

case 2:

em1.set\_password();

break;

case 3:

em1.set\_mailCap();

break;

case 4:

em1.alternate\_email();

break;

case 5:

System.out.println("\nTHANKS!!!");

break;

default:

System.out.println("INVALID CHOICE! ENTER AGAIN!");

}

}while(choice!=5);

}

}

**2.** **Email**

package EmailApp;

import java.util.Scanner;

import java.util.Random;

public class Email {

public Scanner s = new Scanner(System.in);

// Setting up the variables

// Defined as 'private' so that these cannot be accessed directly

private String fname;

private String lname;

private String dept;

private String email;

private String password;

private int mailCapacity = 500;

private String alter\_email;

// Constructor to receive the first name and the last name

public Email(String fname, String lname) {

this.fname = fname;

this.lname = lname;

System.out.println("NEW EMPLOYEE: " + this.fname + " " + this.lname);

// Call a method asking for the department - return the department

this.dept = this.setDept();

// Call a method that returns a random password

this.password = this.generate\_password(8);

// Combine elements to generate an email

this.email = this.generate\_email();

}

// Generating the email according to the given syntax

private String generate\_email() {

return this.fname.toLowerCase() + "." + this.lname.toLowerCase() + "@" + this.dept.toLowerCase()

+ ".company.com";

}

// Ask for the department

private String setDept() {

System.out.println(

"DEPARTMENT CODES\n1 for Sales\n2 for Development\n3 for Accounting\n0 for None");

boolean flag = false;

do {

System.out.print("Enter Department Code: ");

int choice = s.nextInt();

switch (choice) {

case 1:

return "Sales";

case 2:

return "Development";

case 3:

return "Accounting";

case 0:

return "None";

default:

System.out.println("\*\*\*INVALID CHOICE\*\*\*");

}

} while (!flag);

return null;

}

// Generating a random password

private String generate\_password(int length) {

Random r = new Random();

String Capital\_chars = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

String Small\_chars = "abcdefghijklmnopqrstuvwxyz";

String numbers = "0123456789";

String symbols = "!@#$%&?";

String values = Capital\_chars + Small\_chars + numbers + symbols;

String password = "";

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

password = password + values.charAt(r.nextInt(values.length()));

}

return password;

}

// Change the password

public void set\_password() {

boolean flag = false;

do {

System.out.print("ARE YOU SURE YOU WANT TO CHANGE YOUR PASSWORD? (Y/N) : ");

char choice = s.next().charAt(0);

if (choice == 'Y' || choice == 'y') {

flag = true;

System.out.print("Enter current password: ");

String temp = s.next();

if (temp.equals(this.password)) {

System.out.println("Enter new password: ");

this.password = s.next();

System.out.println("PASSWORD CHANGED SUCCESSFULLY!");

} else {

System.out.println("Incorrect Password!");

}

} else if (choice == 'N' || choice == 'n') {

flag = true;

System.out.println("PASSWORD CHANGE CANCELED!");

} else {

System.out.println("\*\*\*ENTER A VALID CHOICE\*\*\*");

}

} while (!flag);

}

// Set the mailbox capacity

public void set\_mailCap() {

System.out.println("Current capacity = " + this.mailCapacity + "mb");

System.out.print("Enter new capacity: ");

this.mailCapacity = s.nextInt();

System.out.println("MAILBOX CAPACITY CHANGED SUCCESSFULLY!");

}

// Set the alternate email

public void alternate\_email() {

System.out.print("Enter new alternate email: ");

this.alter\_email = s.next();

System.out.println("ALTERNATE EMAIL SET SUCCESSFULLY!");

}

// Displaying the employee's information

public void getInfo() {

System.out.println("NAME: " + this.fname + " " + this.lname);

System.out.println("DEPARTMENT: " + this.dept);

System.out.println("EMAIL: " + this.email);

System.out.println("PASSWORD: " + this.password);

System.out.println("MAILBOX CAPACITY: " + this.mailCapacity + "mb");

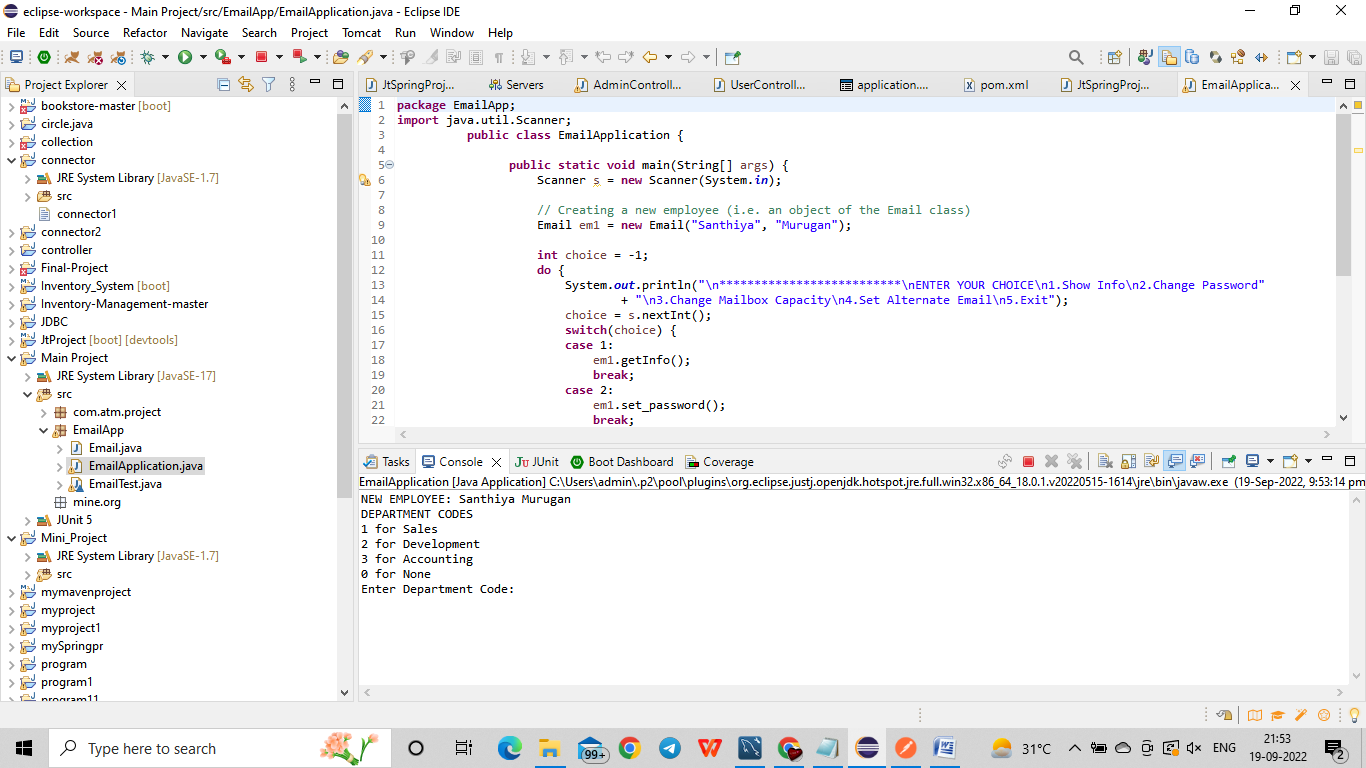
System.out.println("ALTER EMAIL: " + this.alter\_email);

}

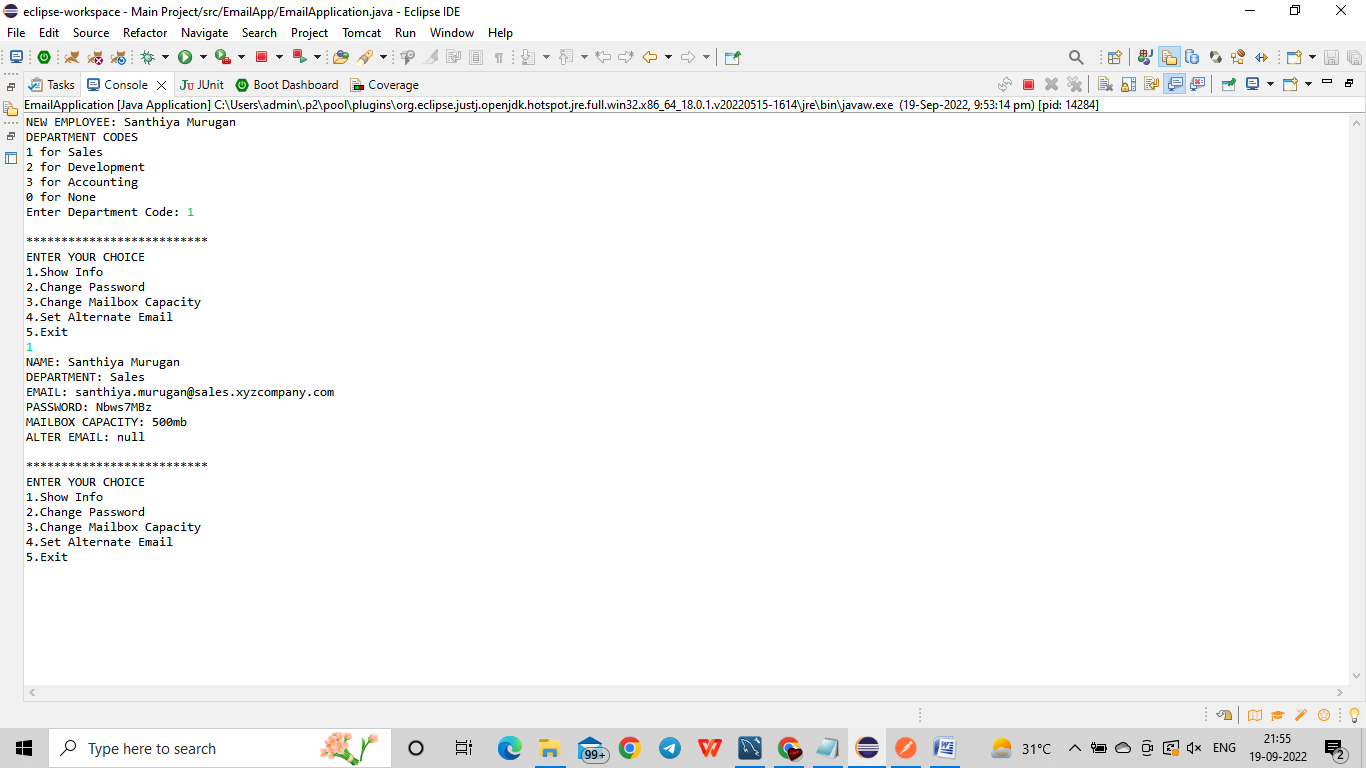
}

**OUTPUT**

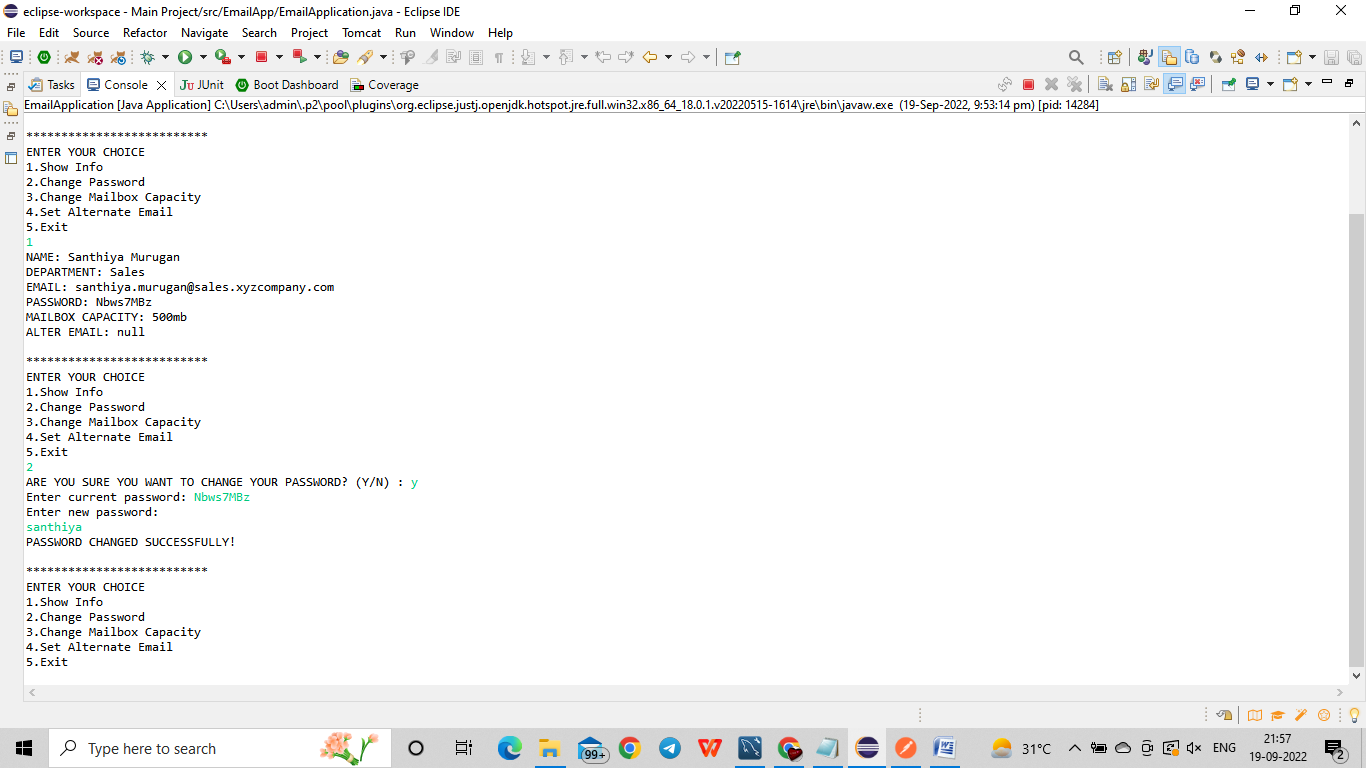
**1.enter department code**



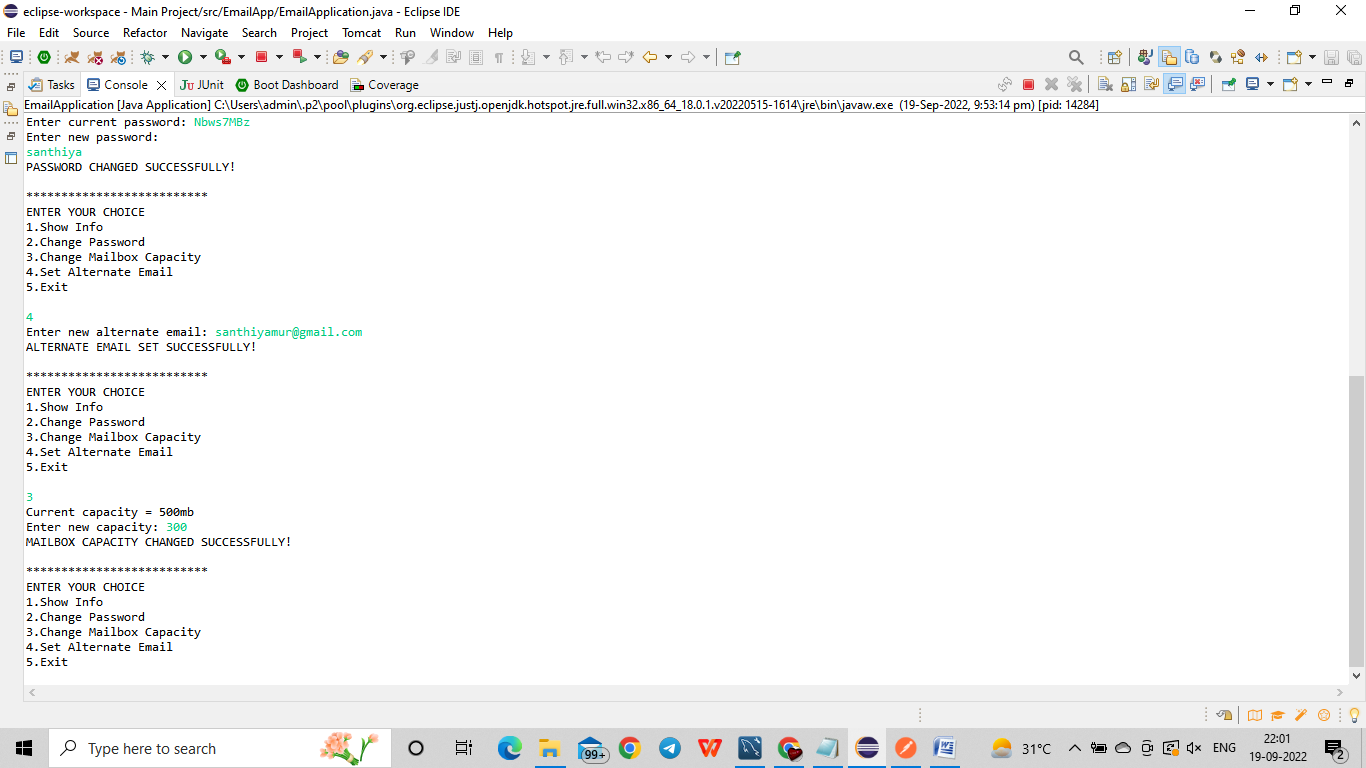
**2.show info**



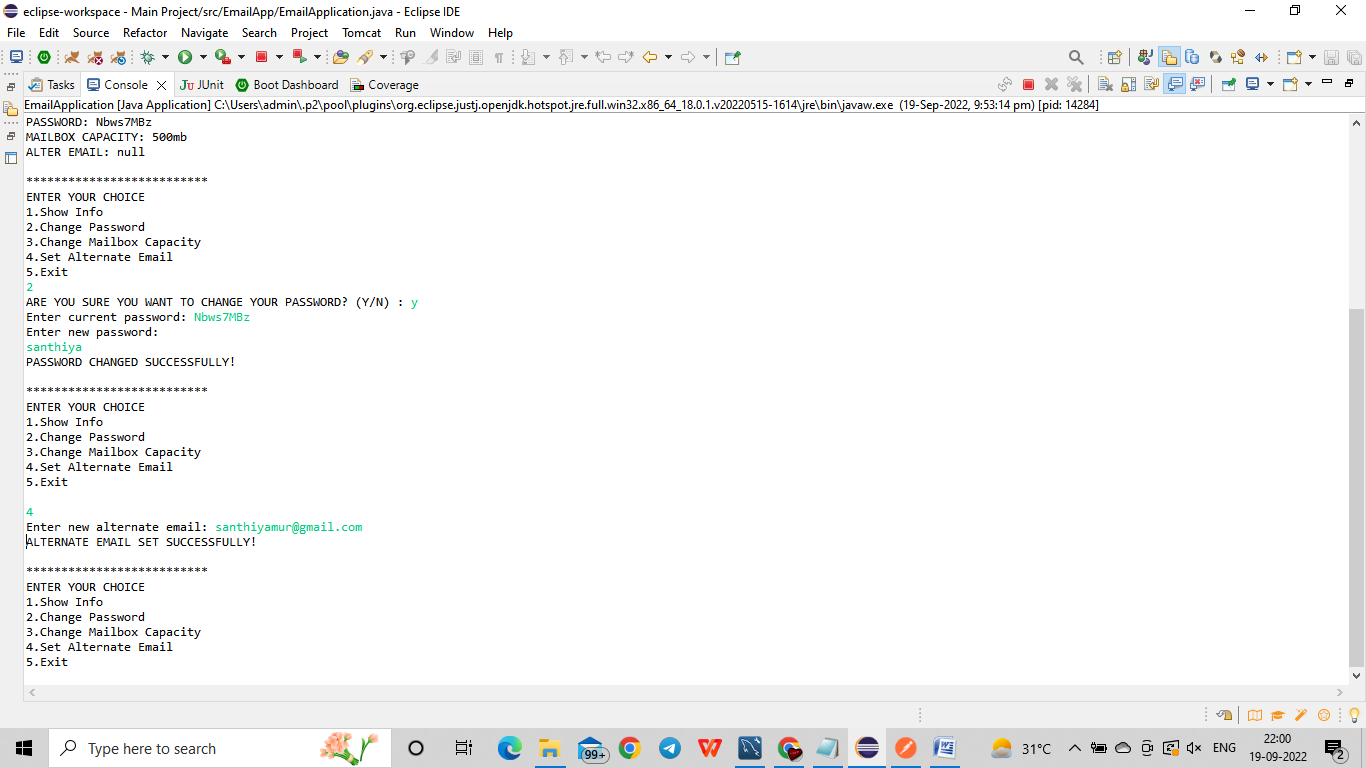
**3.change password**

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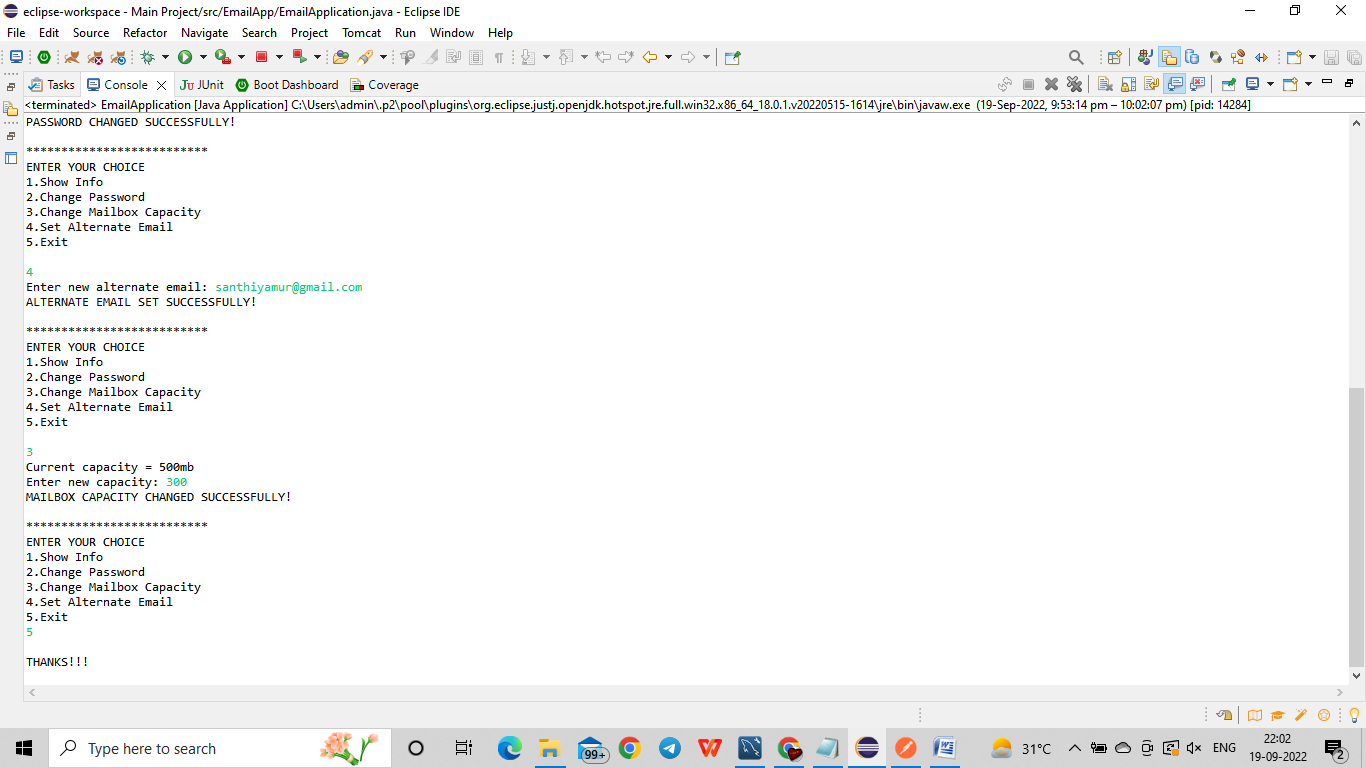
**4.change mailbox capacity**



**5.set alternate email**



**6.exit**

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