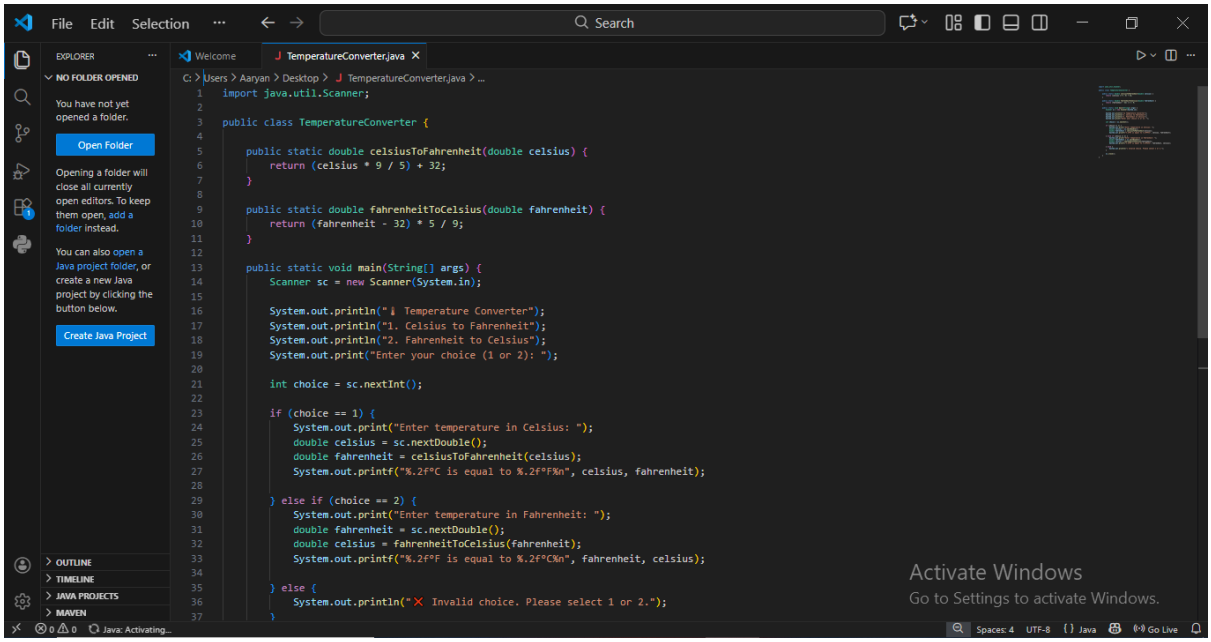
Cognifyz Level 1 Tasks :-

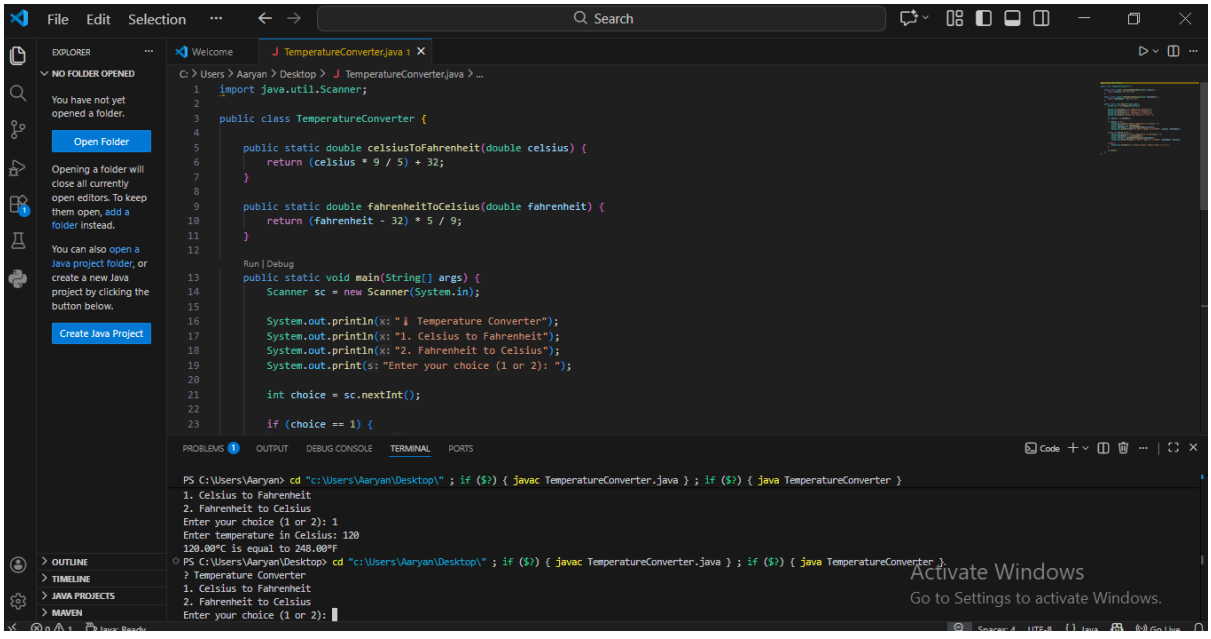
Task 1 :-

Task: Temperature Converter

Description: Create a program that converts temperatures between Celsius and Fahrenheit. Prompt the user to enter a temperature value and the unit of measurement, and then perform the conversion. Display the converted temperature.

Skills: Basic input/output operations, arithmetic operations.


File Edit Selection
Search
EXPLORER
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can also open a Java project folder, or create a new Java project by clicking the button below.
Create Java Project
Welcome
TemperatureConverter.java
C: > Users > Aaryan > Desktop > TemperatureConverter.java > ...
import java.util.Scanner;
public class TemperatureConverter {
public static double celsiusToFahrenheit(double celsius) {
return (celsius * 9 / 5) + 32;
}
public static double fahrenheitToCelsius(double fahrenheit) {
return (fahrenheit - 32) * 5 / 9;
}
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println("🌡 Temperature Converter");
System.out.println("1. Celsius to Fahrenheit");
System.out.println("2. Fahrenheit to Celsius");
System.out.print("Enter your choice (1 or 2): ");
int choice = sc.nextInt();
if (choice == 1) {
System.out.print("Enter temperature in Celsius: ");
double celsius = sc.nextDouble();
double fahrenheit = celsiusToFahrenheit(celsius);
System.out.printf("%.2f°C is equal to %.2f°F%n", celsius, fahrenheit);
} else if (choice == 2) {
System.out.print("Enter temperature in Fahrenheit: ");
double fahrenheit = sc.nextDouble();
double celsius = fahrenheitToCelsius(fahrenheit);
System.out.printf("%.2f°F is equal to %.2f°C%n", fahrenheit, celsius);
} else {
System.out.println("❌ Invalid choice. Please select 1 or 2.");
}
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Java: Activating...
Activate Windows
Go to Settings to activate Windows.
Spaces: 4
UTF-8
Java
Go Live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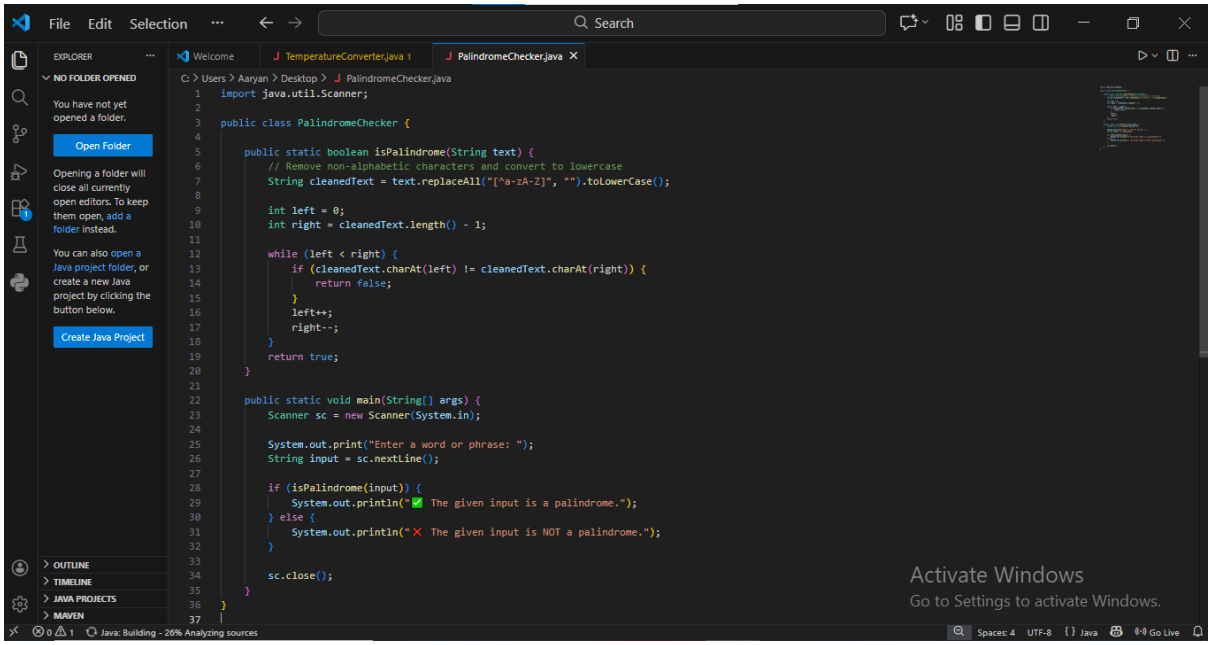
Create Java Project
Welcome
TemperatureConverter.java 1
C: > Users > Aaryan > Desktop > TemperatureConverter.java > ...
import java.util.Scanner;
public class TemperatureConverter {
public static double celsiusToFahrenheit(double celsius) {
return (celsius * 9 / 5) + 32;
}
public static double fahrenheitToCelsius(double fahrenheit) {
return (fahrenheit - 32) * 5 / 9;
}
Run | Debug
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println(x: "🌡 Temperature Converter");
System.out.println(x: "1. Celsius to Fahrenheit");
System.out.println(x: "2. Fahrenheit to Celsius");
System.out.print(s: "Enter your choice (1 or 2): ");
int choice = sc.nextInt();
if (choice == 1) {
PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Code
PS C:\Users\Aaryan> cd "c:\Users\Aaryan\Desktop\" ; if ($?) { javac TemperatureConverter.java } ; if ($?) { java TemperatureConverter }
1. Celsius to Fahrenheit
2. Fahrenheit to Celsius
Enter your choice (1 or 2): 1
Enter temperature in Celsius: 120
120.00°C is equal to 248.00°F
PS C:\Users\Aaryan\Desktop> cd "c:\Users\Aaryan\Desktop\" ; if ($?) { javac TemperatureConverter.java } ; if ($?) { java TemperatureConverter }
? Temperature Converter
1. Celsius to Fahrenheit
2. Fahrenheit to Celsius
Enter your choice (1 or 2):
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Activate Windows
Go to Settings to activate Windows.

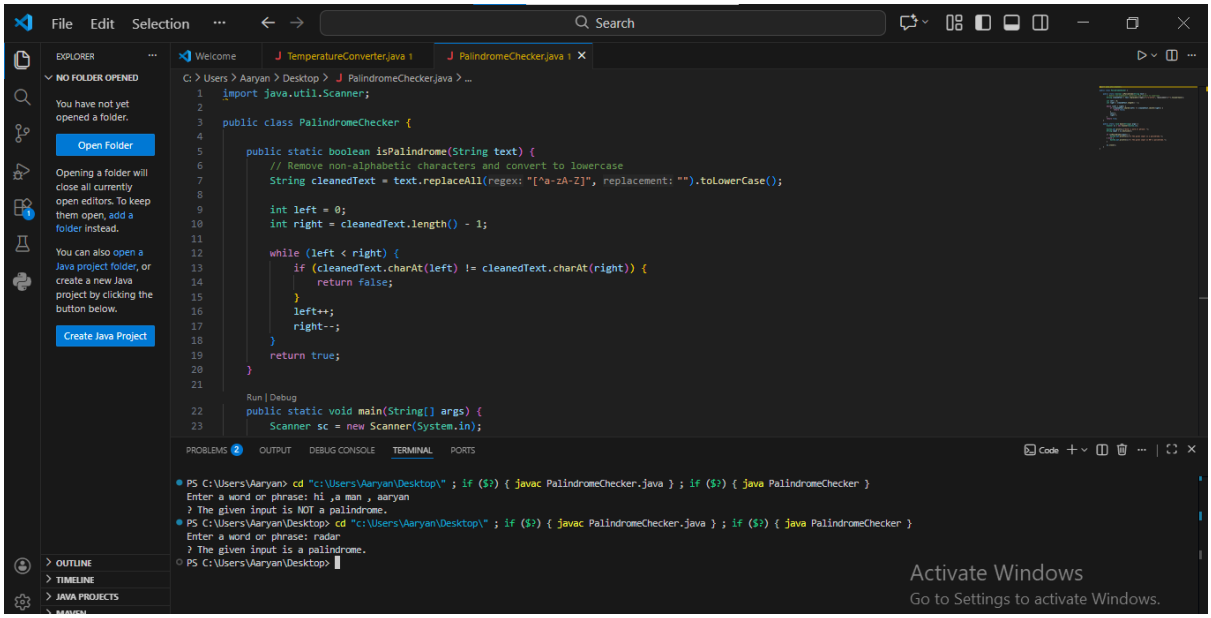
Task2

Task: Palindrome Checker

Description: Implement a program that checks whether a given word or phrase is a palindrome. A palindrome is a word or phrase that reads the same forwards and backward, ignoring spaces and punctuation.

Skills: String manipulation, loops, conditional statements.



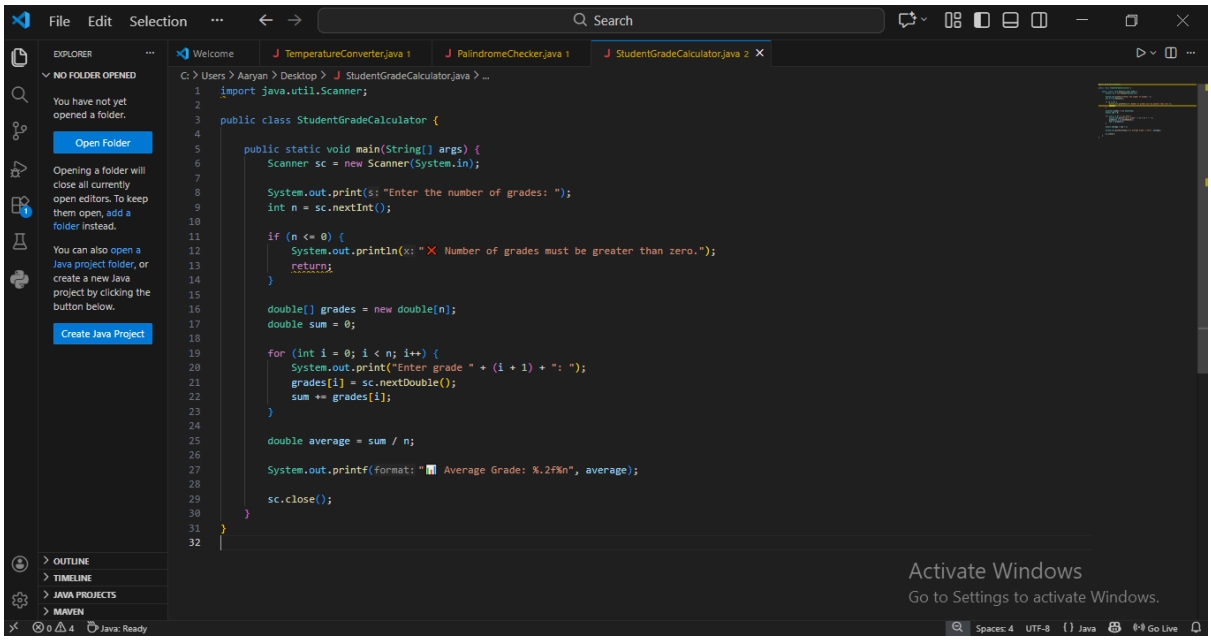


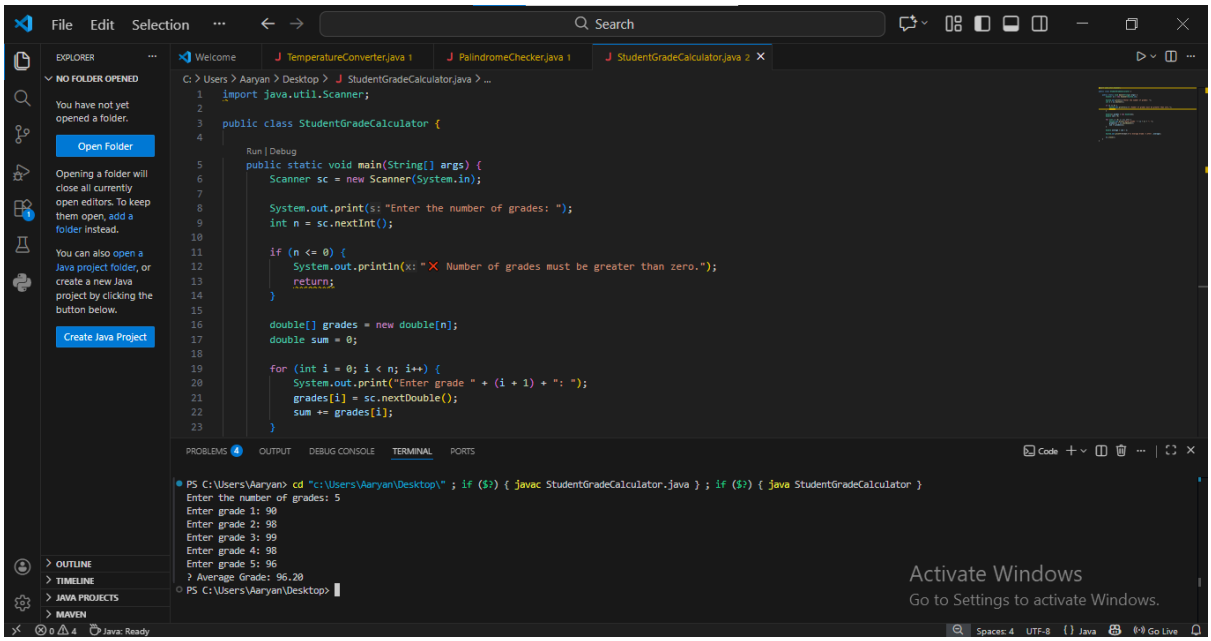
Task3

Task: Student Grade Calculator

Description: create a program that calculates and displays the average grade of a student. Prompt the user to enter the number of grades to be entered, and then input each grade. Calculate the average and display it to the user.

Skills: Loops, arrays, basic arithmetic operations.



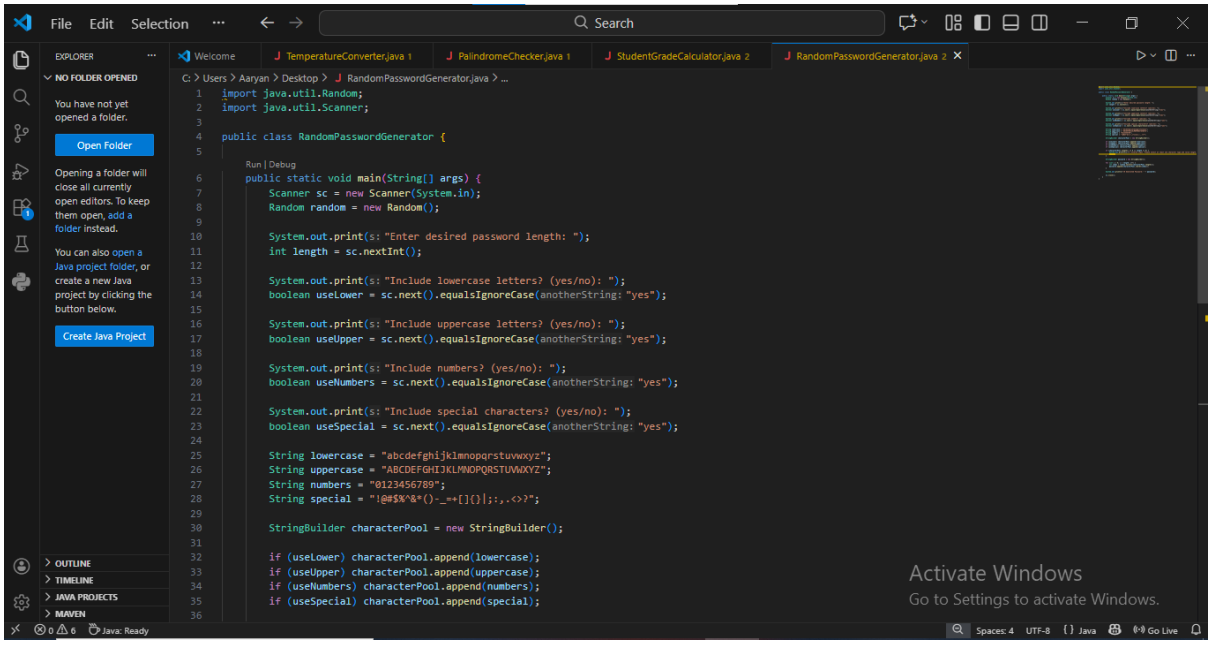


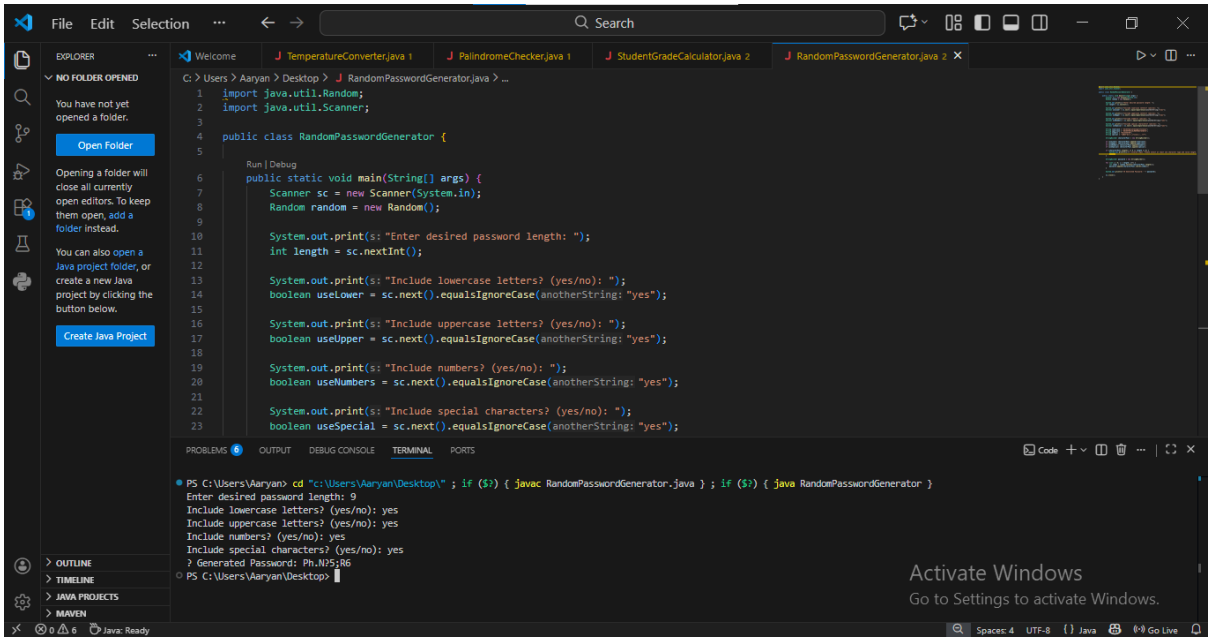
Task4

Task: Random Password Generator

Description: Build a program that generates a random password for the user. Prompt the user to enter the desired length of the password and specify whether it should include numbers, lowercase letters, uppercase letters, and special characters. Generate the password accordingly and display it to the user.

Skills: Random number generation, string manipulation, user input.




File Edit Selection
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EXPLORER
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Open Folder
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You can also open a Java project folder, or create a new Java project by clicking the button below.
Create Java Project
Welcome
TemperatureConverter.java 1
PalindromeChecker.java 1
StudentGradeCalculator.java 2
RandomPasswordGenerator.java 2
C: > Users > Aaryan > Desktop > RandomPasswordGenerator.java > ...
import java.util.Random;
import java.util.Scanner;
public class RandomPasswordGenerator {
Run | Debug
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
Random random = new Random();
System.out.print(s: "Enter desired password length: ");
int length = sc.nextInt();
System.out.print(s: "Include lowercase letters? (yes/no): ");
boolean useLower = sc.next().equalsIgnoreCase(anotherString: "yes");
System.out.print(s: "Include uppercase letters? (yes/no): ");
boolean useUpper = sc.next().equalsIgnoreCase(anotherString: "yes");
System.out.print(s: "Include numbers? (yes/no): ");
boolean useNumbers = sc.next().equalsIgnoreCase(anotherString: "yes");
System.out.print(s: "Include special characters? (yes/no): ");
boolean useSpecial = sc.next().equalsIgnoreCase(anotherString: "yes");
PROBLEMS 6
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\Aaryan> cd "c:\Users\Aaryan\Desktop\" ; if ($?) { javac RandomPasswordGenerator.java } ; if ($?) { java RandomPasswordGenerator }
Enter desired password length: 9
Include lowercase letters? (yes/no): yes
Include uppercase letters? (yes/no): yes
Include numbers? (yes/no): yes
Include special characters? (yes/no): yes
? Generated Password: Ph.N?5;R6
PS C:\Users\Aaryan\Desktop>
Activate Windows
Go to Settings to activate Windows.
OUTLINE
TIMELINE
JAVA PROJECTS
MAVEN
Java: Ready
Spaces: 4
UTF-8
Java
Go Live