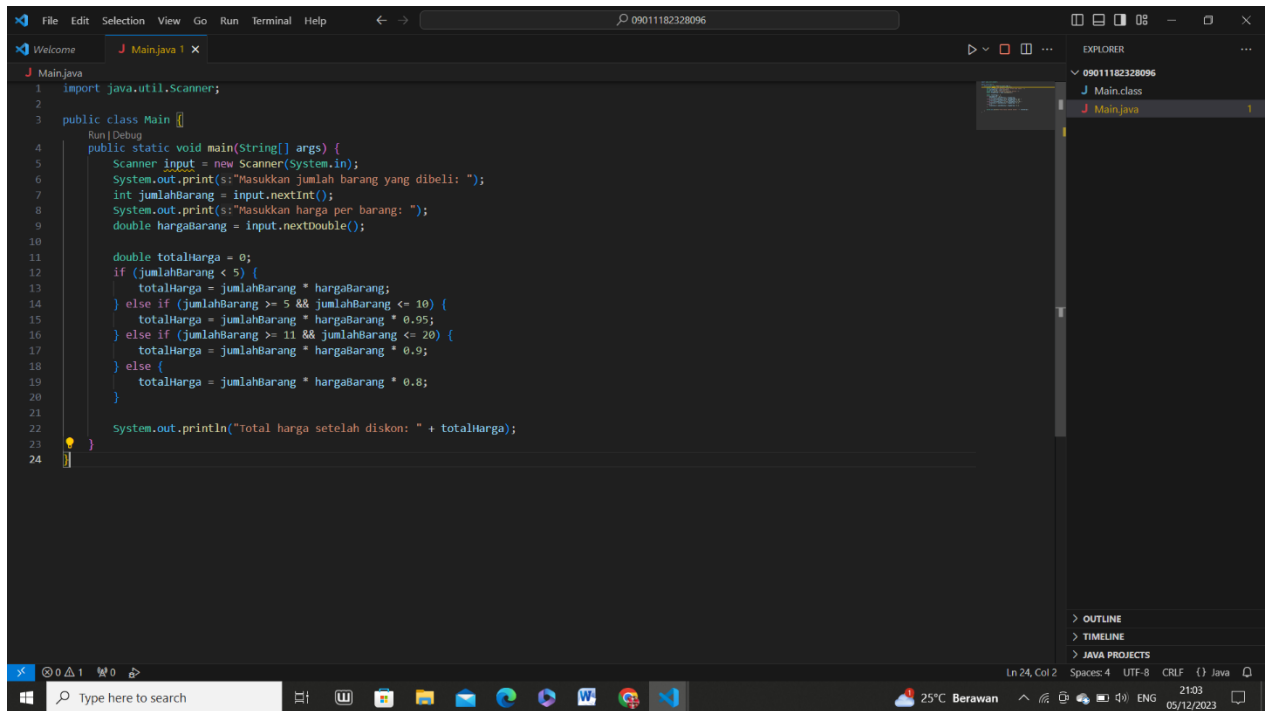
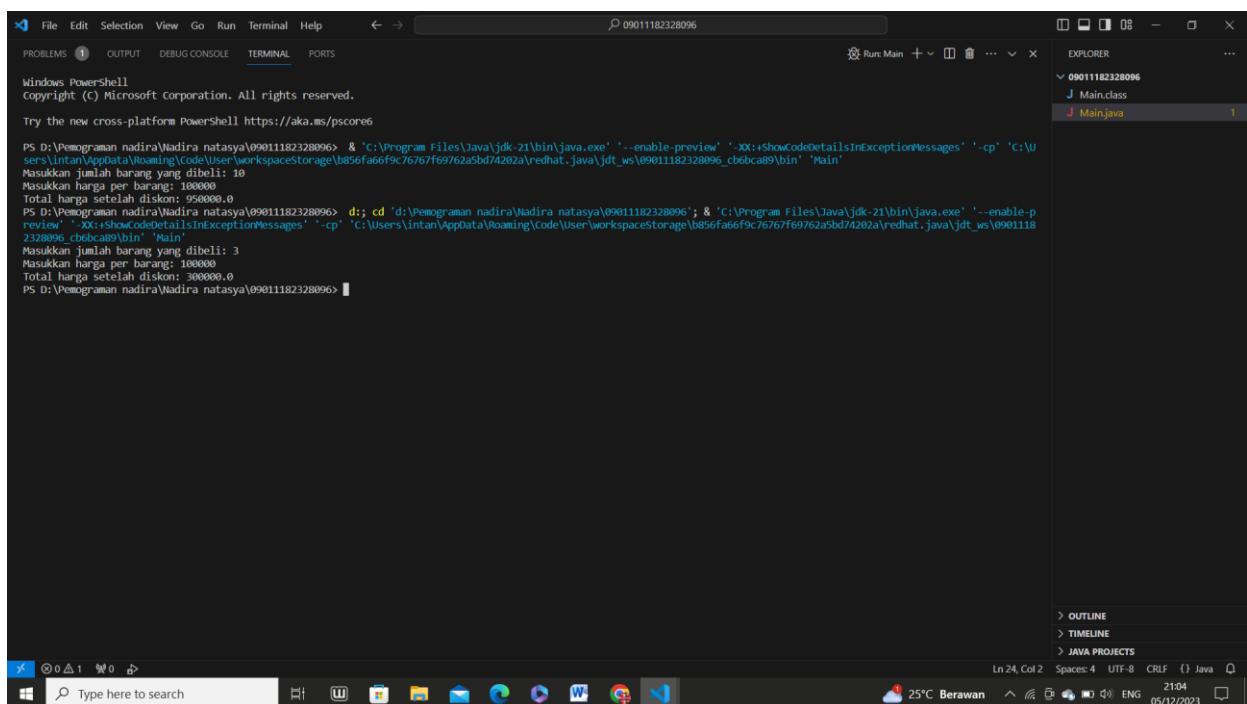


NAMA : NADIRA NATASYA
NIM : 09011182328096
KELAS : SK1C
UAS PEMROGRAMAN KOMPUTER

1.



```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         System.out.print("Masukkan jumlah barang yang dibeli: ");
7         int jumlahBarang = input.nextInt();
8         System.out.print("Masukkan harga per barang: ");
9         double hargaBarang = input.nextDouble();
10
11         double totalHarga = 0;
12         if (jumlahBarang < 5) {
13             totalHarga = jumlahBarang * hargaBarang;
14         } else if (jumlahBarang >= 5 && jumlahBarang <= 10) {
15             totalHarga = jumlahBarang * hargaBarang * 0.95;
16         } else if (jumlahBarang >= 11 && jumlahBarang <= 20) {
17             totalHarga = jumlahBarang * hargaBarang * 0.9;
18         } else {
19             totalHarga = jumlahBarang * hargaBarang * 0.8;
20         }
21
22         System.out.println("Total harga setelah diskon: " + totalHarga);
23     }
24 }
```



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Pemograman nadira\Nadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Local\Temp\Code\Users\workspaceStorage\b856fa66f9c76767f69762a5bd74282a\redhat_java\jdt_ws\09011182328096_cbbca89\bin' 'Main'
Masukkan jumlah barang yang dibeli: 10
Masukkan harga per barang: 100000
Total harga setelah diskon: 950000.0
PS D:\Pemograman nadira\Nadira natasya\09011182328096> cd 'd:\Pemograman nadira\Nadira natasya\09011182328096' & & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Local\Temp\Code\Users\workspaceStorage\b856fa66f9c76767f69762a5bd74282a\redhat_java\jdt_ws\09011182328096_cbbca89\bin' 'Main'
Masukkan jumlah barang yang dibeli: 3
Masukkan harga per barang: 100000
Total harga setelah diskon: 300000.0
PS D:\Pemograman nadira\Nadira natasya\09011182328096>
```

2.

```

1  import java.util.Scanner;
2
3  public class Autentikasi {
4      public static void main(String[] args) {
5          Scanner input = new Scanner(System.in);
6          System.out.print("Masukkan username: ");
7          String username = input.nextLine();
8          System.out.print("Masukkan password: ");
9          String password = input.nextLine();
10
11         if (username.equals(anobject:"admin") && password.equals(anobject:"admin")) {
12             System.out.println(x:"Autentikasi Berhasil");
13         } else {
14             System.out.println(x:"Autentikasi Gagal");
15         }
16     }
17 }
18

```

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```

PS D:\Pemograman nadira\Wadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa66f9c76767f69762a5bd74202a\redhat.java\jdt_ws\09011182328096_cbbca89\bin' 'Autentikasi'
Masukkan username: nadira
Masukkan password: 1234
Autentikasi Gagal
PS D:\Pemograman nadira\Wadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa66f9c76767f69762a5bd74202a\redhat.java\jdt_ws\09011182328096_cbbca89\bin' 'Autentikasi'
Masukkan username: admin
Masukkan password: admin
Autentikasi Berhasil
PS D:\Pemograman nadira\Wadira natasya\09011182328096>

```

3.

```

1  public class Fibonacci {
2      public static void main(String[] args) {
3          int n = 10; // ganti dengan nilai n yang diinginkan
4          int firstTerm = 0, secondTerm = 1;
5
6          System.out.println("Deret Fibonacci hingga suku ke-" + n + ":");
7
8          for (int i = 1; i <= n; ++i) {
9              System.out.print(firstTerm + " ");
10             int nextTerm = firstTerm + secondTerm;
11             firstTerm = secondTerm;
12             secondTerm = nextTerm;
13         }
14     }
15 }

```

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

```

PS D:\Pemograman nadira\Wadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa66f9c76767f69762a5bd74202a\redhat.java\jdt_ws\09011182328096_cbbca89\bin' 'Fibonacci'
Deret Fibonacci hingga suku ke-10:
0 1 1 2 3 5 8 13 21 34
PS D:\Pemograman nadira\Wadira natasya\09011182328096>

```

4.

```

1 import java.util.Scanner;
2
3 public class Faktorisasi {
4     public static void main(String[] args) {
5         Scanner input = new Scanner(System.in);
6         System.out.println(x:"Masukkan bilangan yang akan di-faktorisasi:");
7         int bilangan = input.nextInt();
8
9         if (bilangan <= 0) {
10             System.out.println(x:"Bilangan harus positif.");
11             return;
12         }
13
14         System.out.println("Faktor-faktor dari " + bilangan + ":");
15         for (int i = 1; i <= bilangan; i++) {
16             if (bilangan % i == 0) {
17                 System.out.print(i + " ");
18                 bilangan /= i;
19             }
20         }
21     }
22 }

```

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS D:\Pemograman nadira\Wadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:showCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa66f9c76767f69762a5bd74202a\redhat.java\jdt_ws\09011182328096_ch6bca89\bin' 'Faktorisasi'

Masukkan bilangan yang akan di-faktorisasi:

10

Faktor-faktor dari 10:

1 2 5

PS D:\Pemograman nadira\Wadira natasya\09011182328096> cd 'd:\Pemograman nadira\Wadira natasya\09011182328096'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:showCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa66f9c76767f69762a5bd74202a\redhat.java\jdt_ws\09011182328096_ch6bca89\bin' 'Faktorisasi'

Masukkan bilangan yang akan di-faktorisasi:

18

Faktor-faktor dari 18:

1 2 3

PS D:\Pemograman nadira\Wadira natasya\09011182328096>

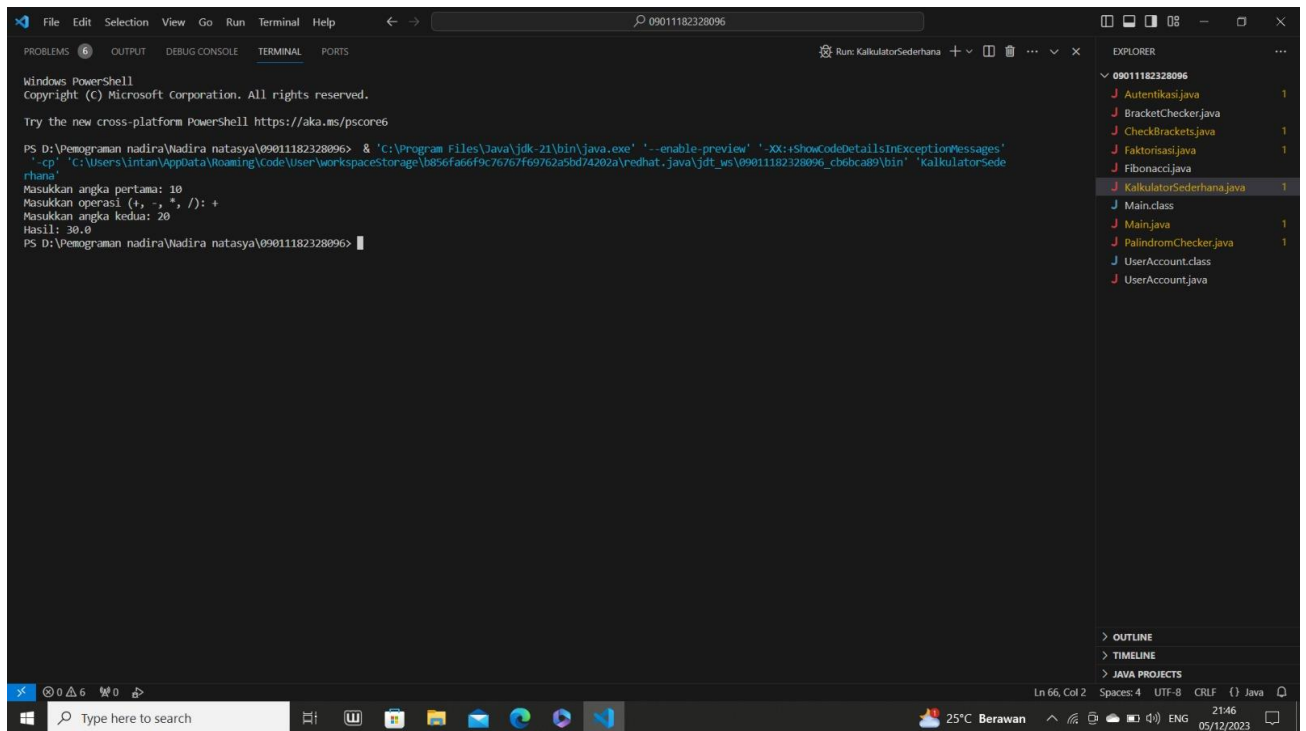
5.

```

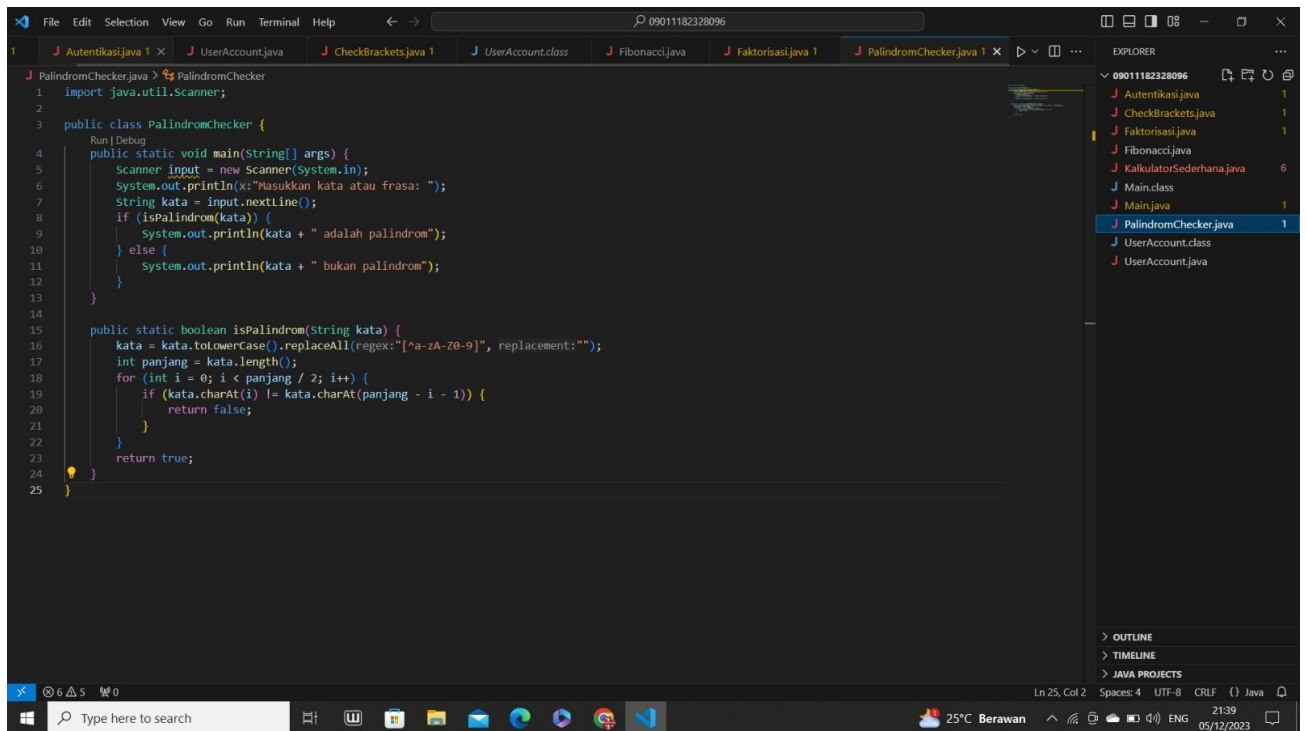
31 break;
32 default:
33     System.out.println(x:"Operasi tidak valid");
34     return;
35 }
36
37 System.out.println("Hasil: " + hasil);
38
39 scanner.close();
40 }
41
42 // Metode untuk penjumlahan
43 private static double tambah(double a, double b) {
44     return a + b;
45 }
46
47 // Metode untuk pengurangan
48 private static double kurang(double a, double b) {
49     return a - b;
50 }
51
52 // Metode untuk perkalian
53 private static double kali(double a, double b) {
54     return a * b;
55 }
56
57 // Metode untuk pembagian
58 private static double bagi(double a, double b) {
59     if (b != 0) {
60         return a / b;
61     } else {
62         System.out.println(x:"Tidak dapat melakukan pembagian dengan nol");
63         return Double.NaN; // NaN (Not a Number) untuk menunjukkan hasil yang tidak valid
64     }
65 }
66 }

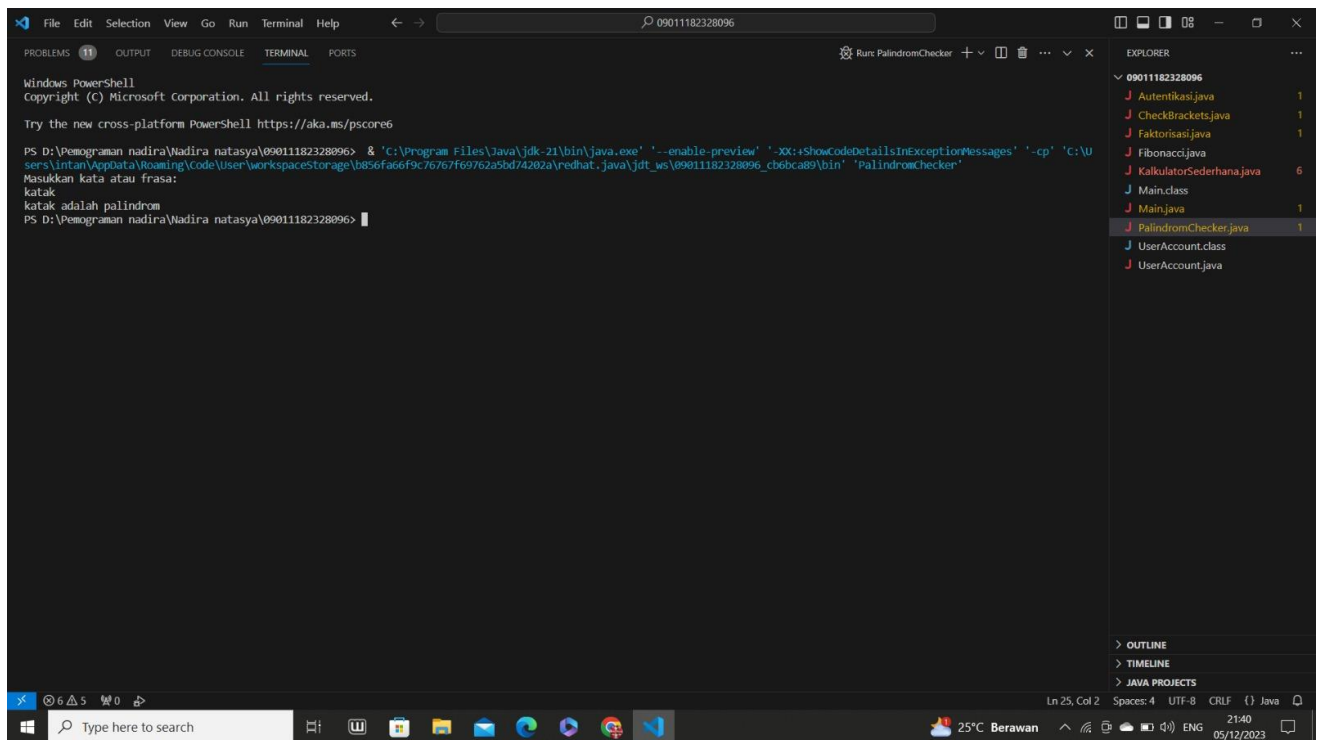
```

Ln 66, Col 2 Spaces: 4 UTF-8 CRLF {} Java

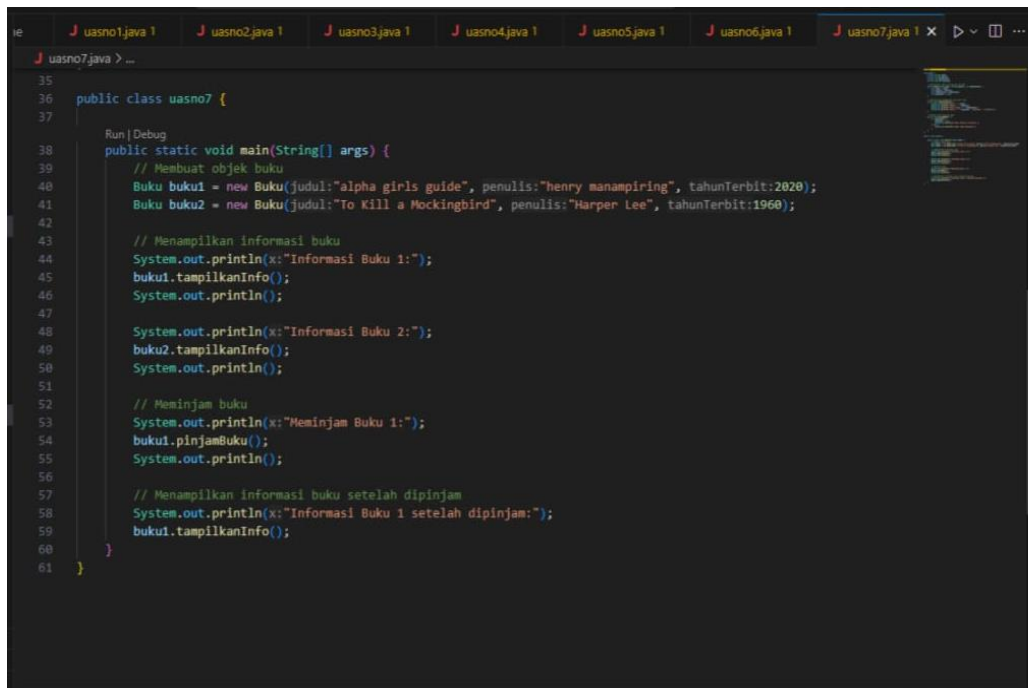


6.





7.



```
Tahun Terbit: 1960
Status: Tersedia

Meminjam Buku 1:
Buku berhasil dipinjam.

Informasi Buku 1 setelah dipinjam:
Judul: alpha girls guide
Penulis: henry manampiring
Tahun Terbit: 2020
Status: Dipinjam
```

8.

```

1  import java.util.Stack;
2
3  public class BracketChecker {
4
5      // Run | Debug
6      public static void main(String[] args) {
7          // Masukkan ekspresi matematika
8          String expression = "(a + b) * (c - d)";
9
10         // Memanggil metode untuk memeriksa urutan kurung
11         if (checkBrackets(expression)) {
12             System.out.println("Urutan kurung benar.");
13         } else {
14             System.out.println("Urutan kurung salah.");
15         }
16     }
17
18     // Metode untuk memeriksa urutan kurung dengan menggunakan stack
19     private static boolean checkBrackets(String expression) {
20         Stack<Character> stack = new Stack<>();
21
22         for (char c : expression.toCharArray()) {
23             if (c == '(') {
24                 stack.push(c);
25             } else if (c == ')') {
26                 // Memastikan stack tidak kosong sebelum pop
27                 if (stack.isEmpty()) {
28                     return false;
29                 }
30                 stack.pop();
31             } // Ignore karakter selain kurung buka dan kurung tutup
32         }
33
34         // Periksa apakah stack kosong setelah iterasi selesai
35         return stack.isEmpty();
36     }
37 }

```

```

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Pemograman nadira\Nadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\intan\AppData\Roaming\Code\User\workspaceStorage\b85efa66f9c7676f69762a5bd74282a\redhat.java\jdt_ws\09011182328096_cbebcab9\bin' 'BracketChecker'
Urutan kurung benar.
PS D:\Pemograman nadira\Nadira natasya\09011182328096>

```


9.

```

1  import java.util.Stack;
2  import java.util.Scanner;
3
4  public class CheckBrackets {
5      public static void main(String[] args) {
6          Scanner scanner = new Scanner(System.in);
7          System.out.println(x:"Masukkan ekspresi matematika:");
8          String expression = scanner.nextLine();
9          System.out.println("Hasil verifikasi: " + checkBrackets(expression));
10     }
11
12     public static boolean checkBrackets(String expression) {
13         Stack<Character> stack = new Stack<>();
14         for (int i = 0; i < expression.length(); i++) {
15             char c = expression.charAt(i);
16             if (c == '(' || c == '[' || c == '{') {
17                 stack.push(c);
18             } else if (c == ')' || c == ']' || c == '}') {
19                 if (stack.isEmpty() || stack.peek() != c) {
20                     return false;
21                 }
22                 stack.pop();
23             }
24         }
25         return stack.isEmpty();
26     }
27 }

```

```

PS D:\Pemograman nadira\Wadira natasya\09011182328096> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa6f9c7676f69762a5bd74282a\redhat_java\jdt_ws\09011182328096_cb6bca89\bin' 'CheckBrackets'
Masukkan ekspresi matematika:
10
Hasil verifikasi: true
PS D:\Pemograman nadira\Wadira natasya\09011182328096> d; cd 'd:\Pemograman nadira\Wadira natasya\09011182328096'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-enable-p
review' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\Intan\AppData\Roaming\Code\User\workspaceStorage\b856fa6f9c7676f69762a5bd74282a\redhat_java\jdt_ws\0901118
2328096_cb6bca89\bin' 'CheckBrackets'
Exception in thread "main" java.lang.Error: Unresolved compilation problem:

    at CheckBrackets.main(Buku.java:5)
PS D:\Pemograman nadira\Wadira natasya\09011182328096> 10
PS D:\Pemograman nadira\Wadira natasya\09011182328096> 20
PS D:\Pemograman nadira\Wadira natasya\09011182328096>

```

10.

The screenshot shows a web browser displaying a GitHub repository page. The address bar shows the URL: `github.com/Nadiraah/UAS-PemrogramanKomputer-NadiraNatasya-09011182328096`. The repository name is `Nadiraah / UAS-PemrogramanKomputer-NadiraNatasya-09011182328096`. The repository is public and has 1 branch and 0 tags. The main branch is selected. The repository description is "UAS-PemrogramanKomputer-NadiraNatasya-09011182328096". The repository was updated 9 minutes ago by Nadiraah. The repository contains a file named `README.md`. The `README.md` file content is displayed, showing the repository name and a description: "Nama: Nadira Natasya, NIM: 09011182328096, TTL: Palembang, 26 Februari 2006, Fakultas: Ilmu Komputer, Prodi: Sistem Komputer, Ujian Akhir Semester Pemrograman Komputer". The Windows taskbar is visible at the bottom, showing the temperature as 26°C in Berawan, the search bar, and various application icons.

github.com/Nadiraah/UAS-PemrogramanKomputer-NadiraNatasya-09011182328096

Nadiraah / UAS-PemrogramanKomputer-NadiraNatasya-09011182328096

Type to search

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UAS-PemrogramanKomputer-NadiraNatasya-09011182328096 Public Pin Unwatch 1

main 1 branch 0 tags Go to file Add file <> Code

Nadiraah Update README.md 7fc4a02 9 minutes ago 3 commits

README.md Update README.md 9 minutes ago

README.md

UAS-PemrogramanKomputer-NadiraNatasya-09011182328096

Nama: Nadira Natasya, NIM: 09011182328096, TTL: Palembang, 26 Februari 2006, Fakultas: Ilmu Komputer, Prodi: Sistem Komputer, Ujian Akhir Semester Pemrograman Komputer

26°C Berawan Search