

Nama : Muhammad Zakaria Haniya

NIM : 244107020135

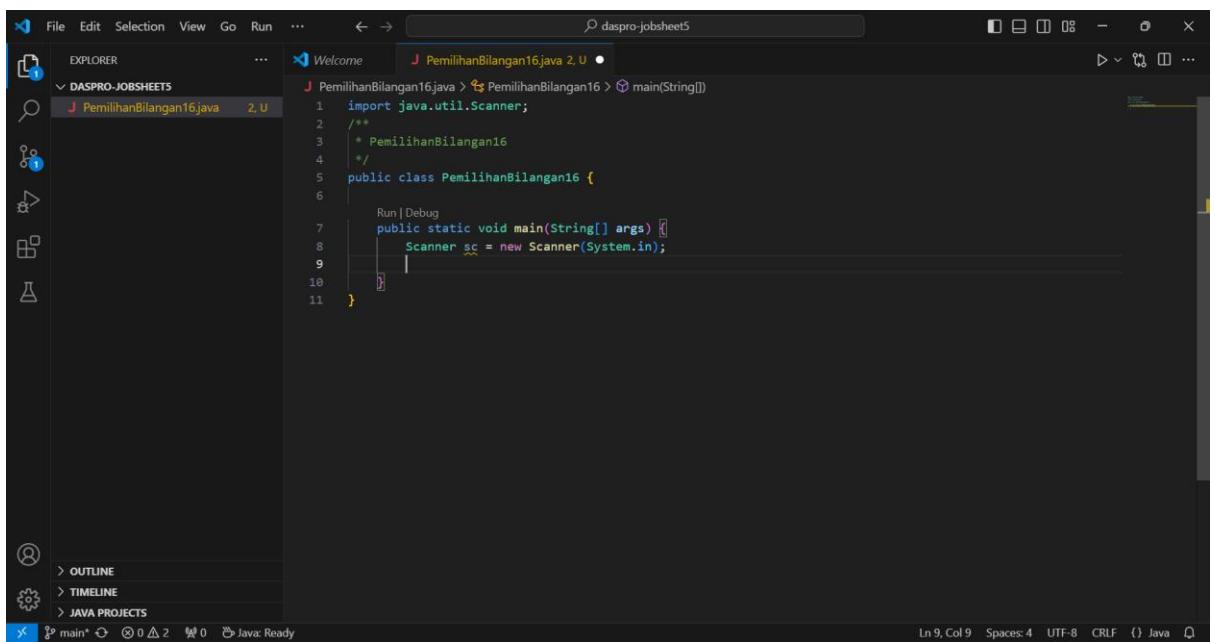
Prodi : D-IV Teknik informatika

Kelas : 1B

Absen : 16

Percobaan 1

1. Buat repository baru pada akun Github Anda, beri nama daspro-jobsheet5
2. Lakukan cloning repository tersebut menggunakan perintah git clone dari terminal
3. Buka folder repository tersebut menggunakan Visual Studio Code
4. Buat file baru PemilihanBilangan.java
5. Buatlah struktur dasar program java dengan fungsi main()
6. Import library Scanner
7. Deklarasikan scanner

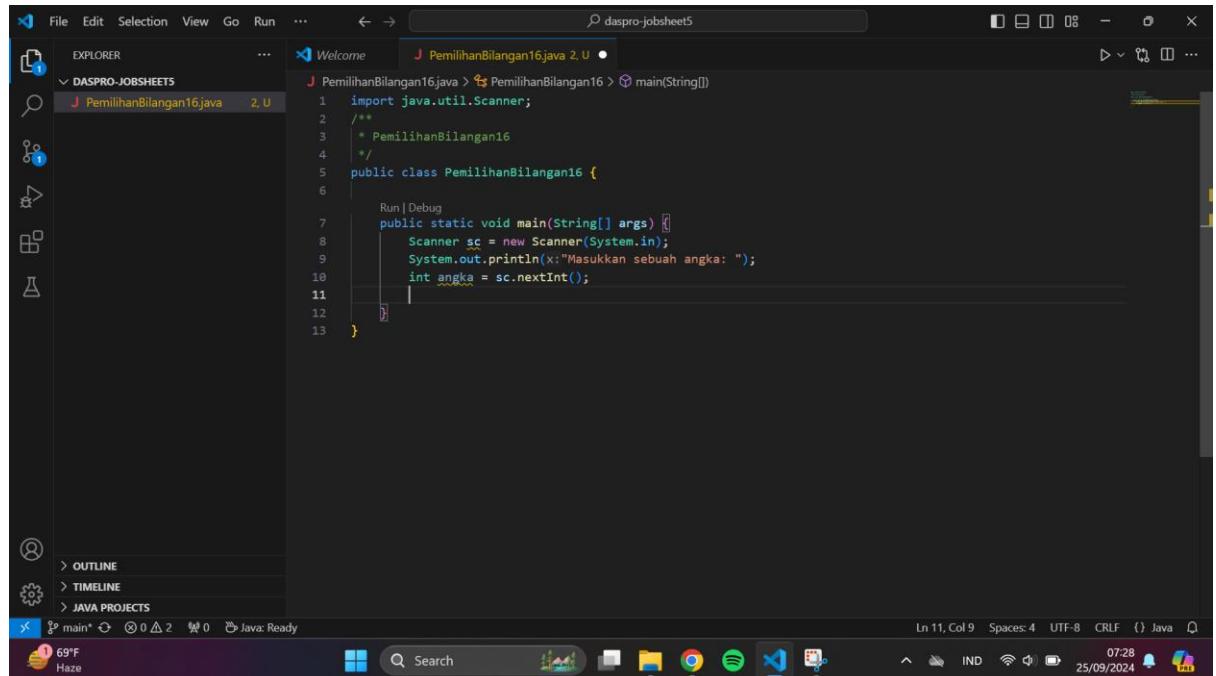


The screenshot shows the Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, ...
- Search Bar:** daspro-jobsheet5
- Explorer Panel:** Shows a folder named "DASPRO-JOBSCHEETS" containing a file "PemilihanBilangan16.java".
- Editor Panel:** Displays the Java code for "PemilihanBilangan16.java".
- Bottom Status Bar:** Lines 9, Column 9, Spaces: 4, UTF-8, CRLF, Java.

```
import java.util.Scanner;
/**
 * PemilihanBilangan16
 */
public class PemilihanBilangan16 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
    }
}
```

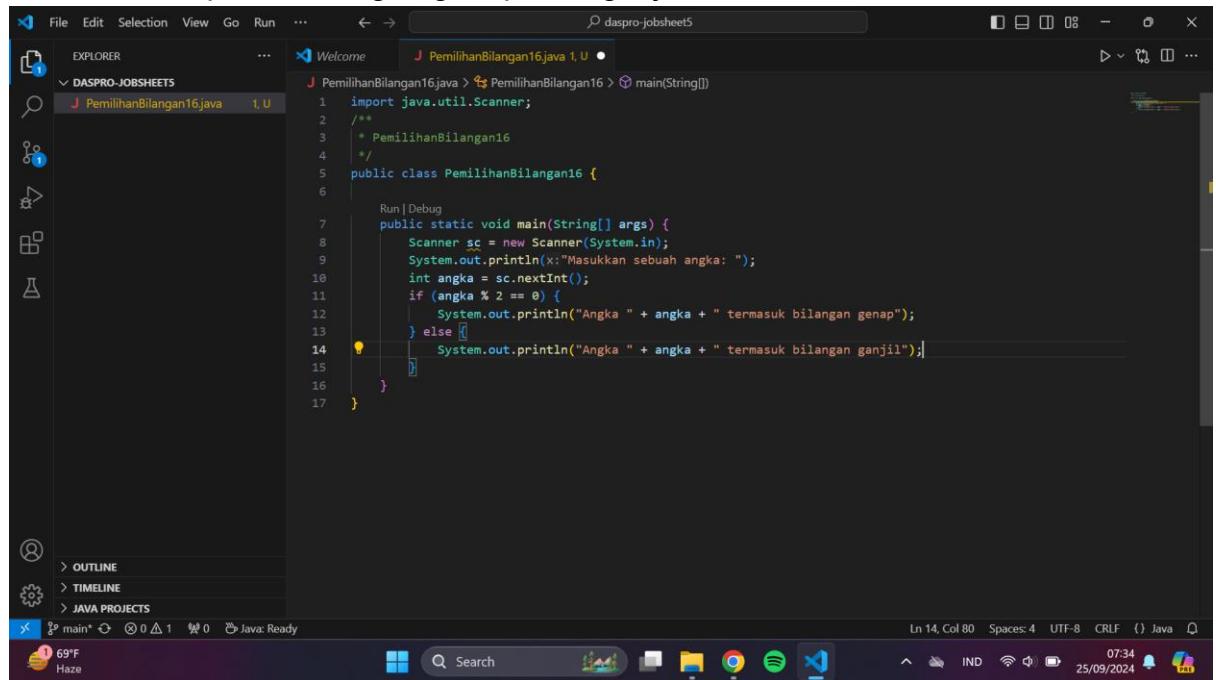
8. Tambahkan kode berikut ini untuk menerima inputan dari keyboard



```
File Edit Selection View Go Run ... ← → ⌂ daspro-jobsheet5
EXPLORER J PemilihanBilangan16.java 2, U ...
Welcome J PemilihanBilangan16.java > PemilihanBilangan16 > main(String[])
1 import java.util.Scanner;
2 /**
3  * PemilihanBilangan16
4  */
5 public class PemilihanBilangan16 {
6
7     Run | Debug
8     public static void main(String[] args) {
9         Scanner sc = new Scanner(System.in);
10        System.out.println("Masukkan sebuah angka: ");
11        int angka = sc.nextInt();
12    }
13 }
```

The screenshot shows the Microsoft Visual Studio Code interface. The left sidebar has a tree view with 'DASPRO-JOBSEETS' expanded, showing 'PemilihanBilangan16.java'. The main editor window displays Java code for reading user input. The status bar at the bottom shows 'Ln 11, Col 9' and other system information.

9. Buatlah struktur pemilihan dengan if-else untuk mengecek apakah bilangan tersebut merupakan bilangan genap atau ganjil.



```
File Edit Selection View Go Run ... ← → ⌂ daspro-jobsheet5
EXPLORER J PemilihanBilangan16.java 1, U ...
Welcome J PemilihanBilangan16.java > PemilihanBilangan16 > main(String[])
1 import java.util.Scanner;
2 /**
3  * PemilihanBilangan16
4  */
5 public class PemilihanBilangan16 {
6
7     Run | Debug
8     public static void main(String[] args) {
9         Scanner sc = new Scanner(System.in);
10        System.out.println("Masukkan sebuah angka: ");
11        int angka = sc.nextInt();
12        if (angka % 2 == 0) {
13            System.out.println("Angka " + angka + " termasuk bilangan genap");
14        } else {
15            System.out.println("Angka " + angka + " termasuk bilangan ganjil");
16        }
17    }
}
```

The screenshot shows the Microsoft Visual Studio Code interface. The left sidebar has a tree view with 'DASPRO-JOBSEETS' expanded, showing 'PemilihanBilangan16.java'. The main editor window displays Java code with an if-else statement to determine if a number is even or odd. A yellow dot in the gutter indicates a breakpoint at line 14. The status bar at the bottom shows 'Ln 14, Col 80' and other system information.

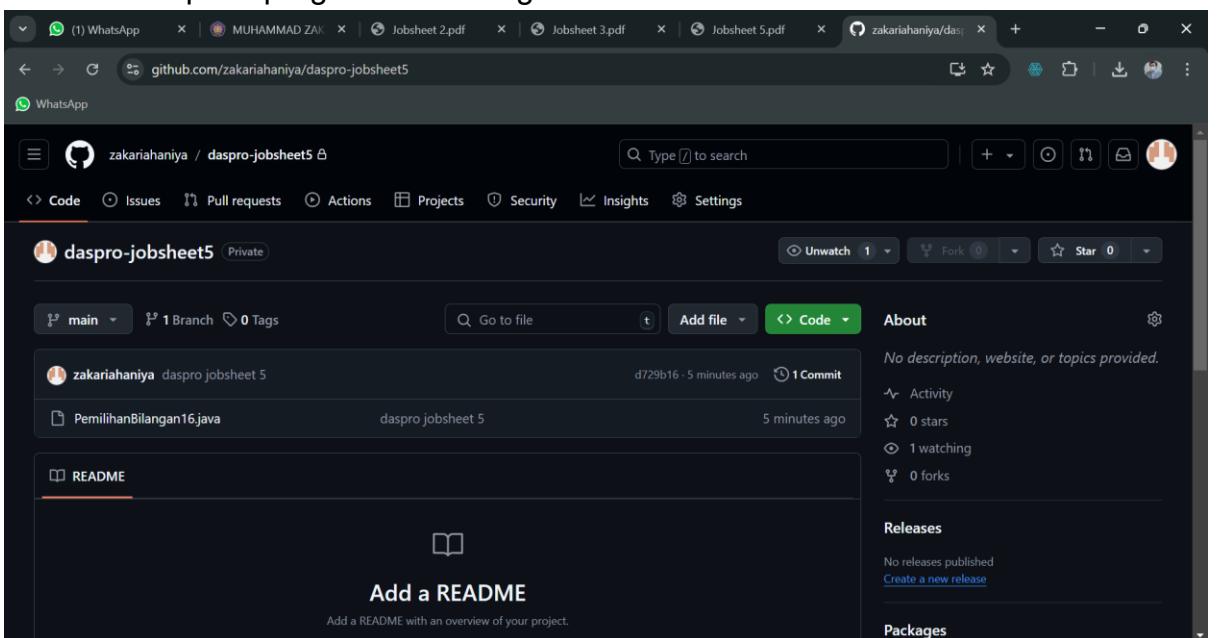
10. Compile dan run program maka outputnya adalah sebagai berikut

The screenshot shows a Java code editor with a file named `PemilihanBilangan16.java` open. The code prints a message asking for a number, reads it using `Scanner`, and then checks if it's even or odd using a ternary operator. The output window shows the program running and printing that the number 4 is even.

```
import java.util.Scanner;
public class PemilihanBilangan16 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Masukkan sebuah angka: ");
        int angka = sc.nextInt();
        if (angka % 2 == 0) {
            System.out.println("Angka " + angka + " termasuk bilangan genap");
        } else {
            System.out.println("Angka " + angka + " termasuk bilangan ganjil");
        }
    }
}
```

```
PS C:\Users\zakal\dapro-jobsheet5> & 'C:\Program Files\Java\jdk-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5ac0c2908c760df008572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'PemilihanBilangan16'
Masukkan sebuah angka: 4
Angka 4 termasuk bilangan genap
PS C:\Users\zakal\dapro-jobsheet5>
```

11. Commit dan push program Anda ke github



Pertanyaan :

1. Modifikasi program di atas pada bagian struktur pemilihannya dengan memanfaatkan ternary operator
2. Push dan commit hasil modifikasi anda ke github

Jawaban :

1.

```

1. File Edit Selection View Go Run ...
2. Explorer DASPRO-JOBSCHEETS PemilihanBilangan16.java 1, M
3. Welcome J Pe PemilihanBilangan16.java > PemilihanBilangan16 > main(String[])
4. 4 */
5. public class PemilihanBilangan16 {
6.
7.     Run | Debug
8.     public static void main(String[] args) {
9.         Scanner sc = new Scanner(System.in);
10.        System.out.print("Masukkan sebuah angka: ");
11.        int angka = sc.nextInt();
12.        String hasil;
13.        hasil = (angka % 2 == 0) ? "genap" : "ganjil";
14.        System.out.println("Angka " + angka + " termasuk bilangan " + hasil);
15.    }

```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

To https://github.com/zakariahaniya/daspro-jobsheet5.git
 * [new branch]      main -> main
PS C:\Users\zakal\dapro-jobsheet5> ^C
PS C:\Users\zakal\dapro-jobsheet5>
PS C:\Users\zakal\dapro-jobsheet5> c:: cd 'c:\Users\zakal\dapro-jobsheets' & 'C:\Program Files\Java\jdk-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5a5cc2988c760d0808572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'PemilihanBilangan16'
Masukkan sebuah angka: 4
Angka 4 termasuk bilangan genap
PS C:\Users\zakal\dapro-jobsheet5>

```

Show hidden icons L1 Col /8 Spaces: 4 UTF-8 CRLF {} Java

2.

[daspro-jobsheet5](https://github.com/zakariahaniya/daspro-jobsheet5) Private

main 1 Branch 0 Tags

zakariahaniya ternary pertama 373489d · now 2 Commits

PemilihanBilangan16.java ternary pertama now

README

Add a README Add a README

About No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases No releases published Create a new release

Packages No packages published Publish your first package

Languages

Percobaan 2

1. Buat file baru dengan nama PemilihanHari.java

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "DASPRO-JOBSCHEETS" containing two files: "PemilihanBilangan16.java" and "PemilihanHari16.java".
- Editor:** Displays the code for "PemilihanHari16.java". The code is as follows:

```
1 /**
2 * PemilihanHari16
3 */
4 public class PemilihanHari16 {
5
6 }
7
```

- Terminal:** Shows the output of a git commit command:

```
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahanifa/daspro-jobsheet5.git
    d729b16..373489d main -> main
PS C:\Users\zakal\dapro-jobsheet5>
```

- Status Bar:** Shows "Java Ready" and other system information like battery level (72%), date (25/09/2024), and time (08:21).

2. Buatlah struktur dasar program java beserta fungsi main()

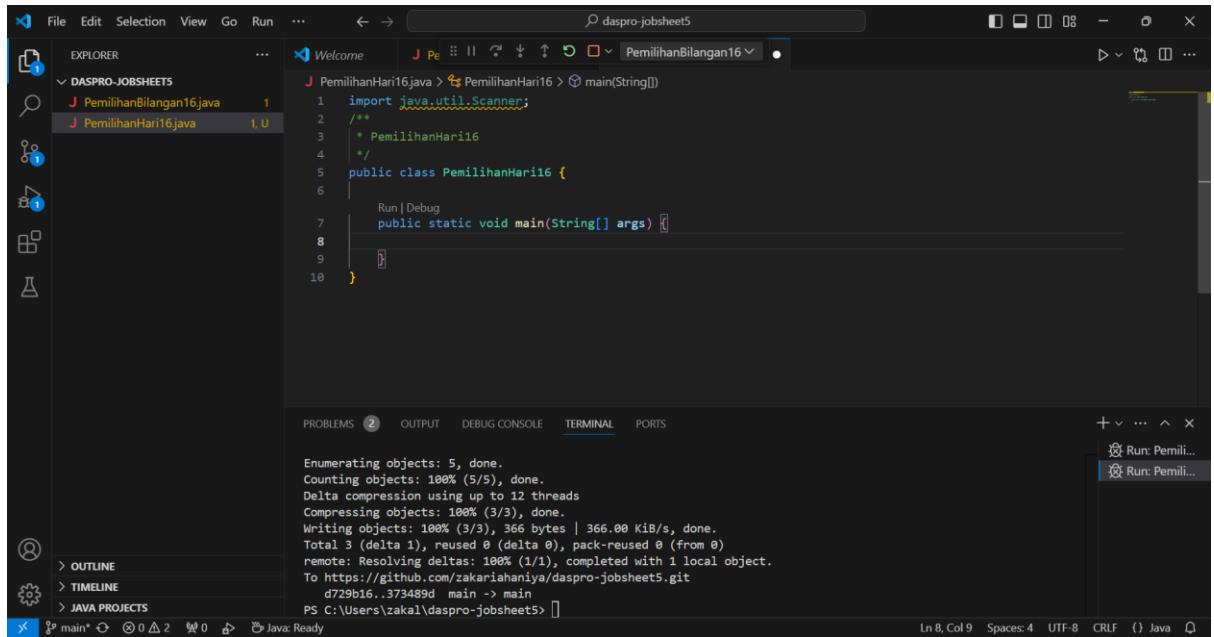
The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "DASPRO-JOBSCHEETS" containing two files: "PemilihanBilangan16.java" and "PemilihanHari16.java".
- Editor:** Displays the code for "PemilihanHari16.java". The code is as follows:

```
1 /**
2 * PemilihanHari16
3 */
4 public class PemilihanHari16 {
5
6     public static void main(String[] args) {
7
8     }
9 }
```

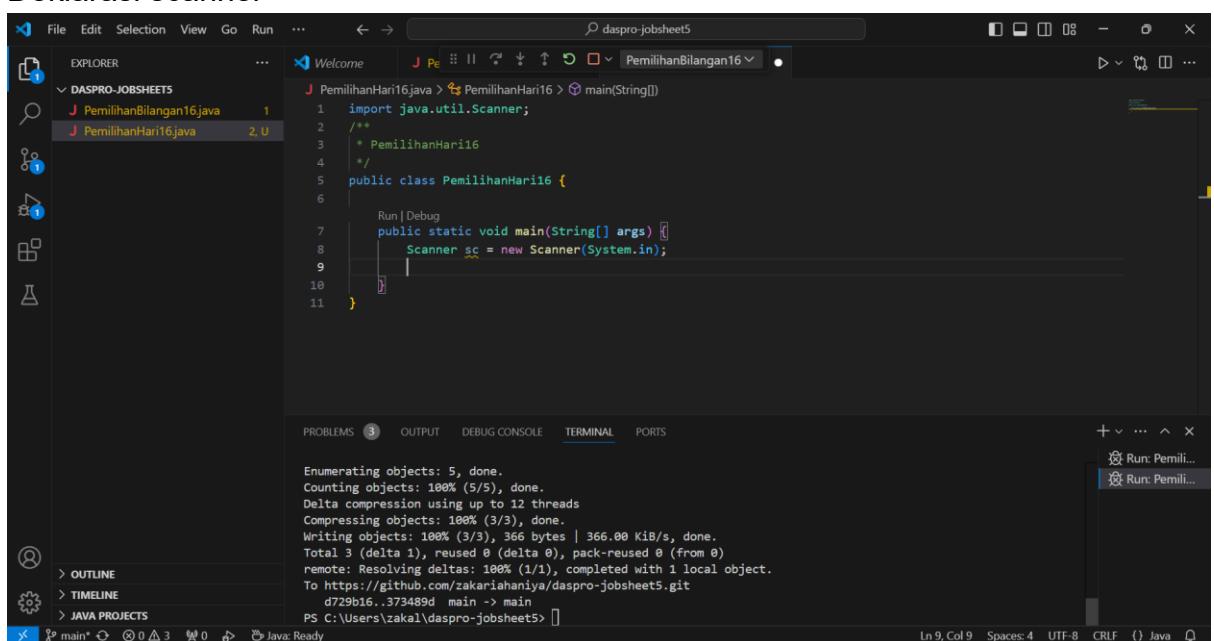
- Terminal:** Shows the output of a git commit command, identical to the one in the previous screenshot.
- Status Bar:** Shows "Java Ready" and other system information like battery level (72%), date (25/09/2024), and time (08:21).

3. Import library java.util.Scanner



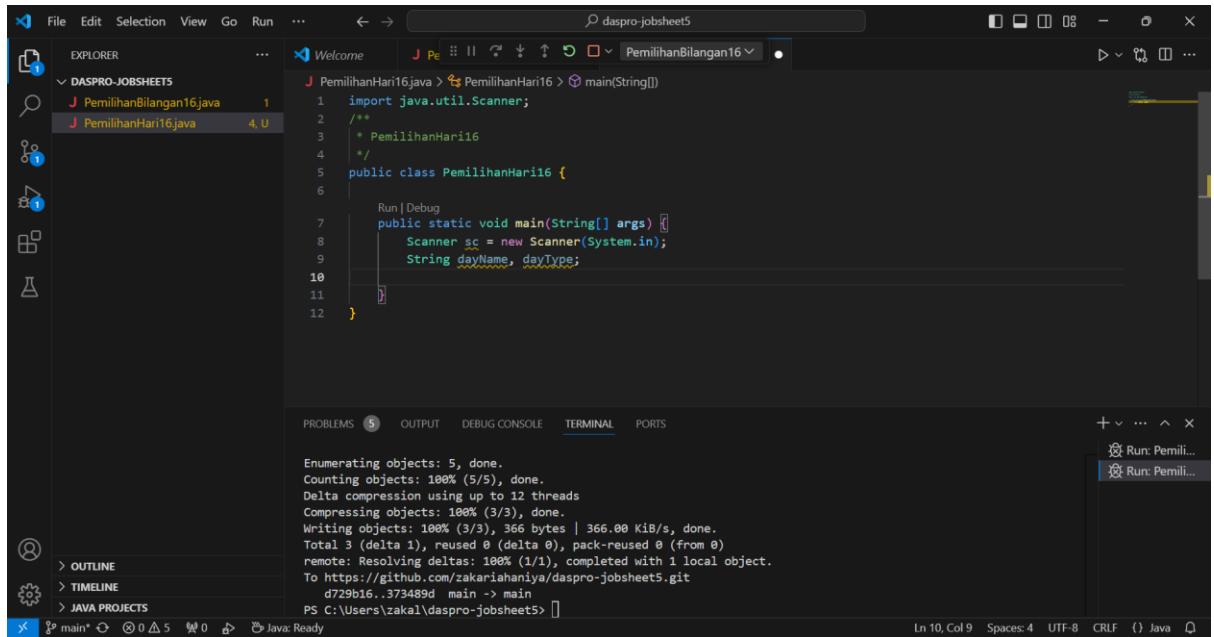
```
File Edit Selection View Go Run ... ← → 🔍 daspro-jobsheet5  
EXPLORER DASPRO-JOBSEETS J PemilihanBilangan16.java 1 J PemilihanHari16.java 1, U  
Run | Debug  
public static void main(String[] args) {  
}  
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.  
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/zakariahaniya/daspro-jobsheet5.git  
d729b16..373489d main -> main  
PS C:\Users\zakal\daspro-jobsheet5> []  
Ln 8, Col 9 Spaces: 4 UTF-8 CRLF {} Java Q
```

4. Deklarasi scanner



```
File Edit Selection View Go Run ... ← → 🔍 daspro-jobsheet5  
EXPLORER DASPRO-JOBSEETS J PemilihanBilangan16.java 1 J PemilihanHari16.java 2, U  
Run | Debug  
public static void main(String[] args) {  
    Scanner sc = new Scanner(System.in);  
}  
PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.  
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/zakariahaniya/daspro-jobsheet5.git  
d729b16..373489d main -> main  
PS C:\Users\zakal\daspro-jobsheet5> []  
Ln 9, Col 9 Spaces: 4 UTF-8 CRLF {} Java Q
```

5. Deklarasi variable dayName dan dayType bertipe String

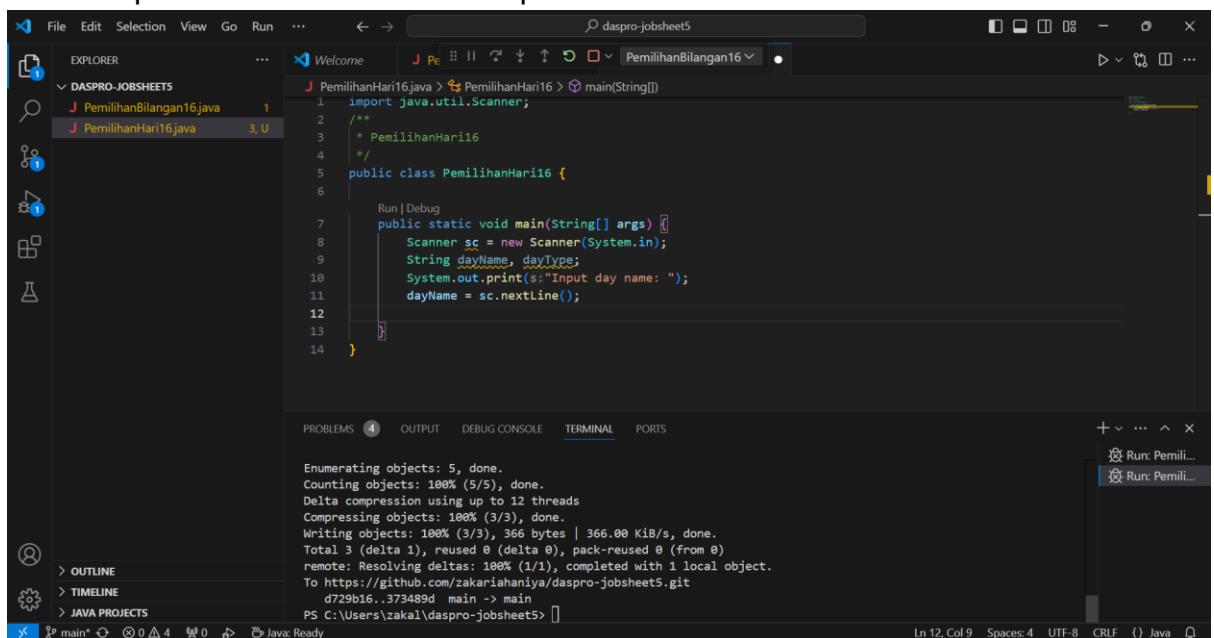


```
File Edit Selection View Go Run ... ← → 🔍 daspro-jobsheet5
EXPLORER DASPRO-JOBSEETS J PemilihanBilangan16.java 1 J PemilihanHari16.java 4, U ...
Welcome J PemilihanHari16.java > PemilihanHari16 > main(String[])
1 import java.util.Scanner;
2 /**
3  * PemilihanHari16
4  */
5 public class PemilihanHari16 {
6
7     Run | Debug
8     public static void main(String[] args) {
9         Scanner sc = new Scanner(System.in);
10        String dayName, dayType;
11    }
12 }

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL PORTS
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
d729b16..373489d main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
Ln 10, Col 9 Spaces: 4 UTF-8 CRLF {} Java Q

@ OUTLINE
@ TIMELINE
@ JAVA PROJECTS
y main* ⚡ 0 △ 5 ⚡ 0 ⚡ Java: Ready + ... ^ x
Run: Pemili...
Run: Pemili...
```

6. Tuliskan perintah untuk membaca input

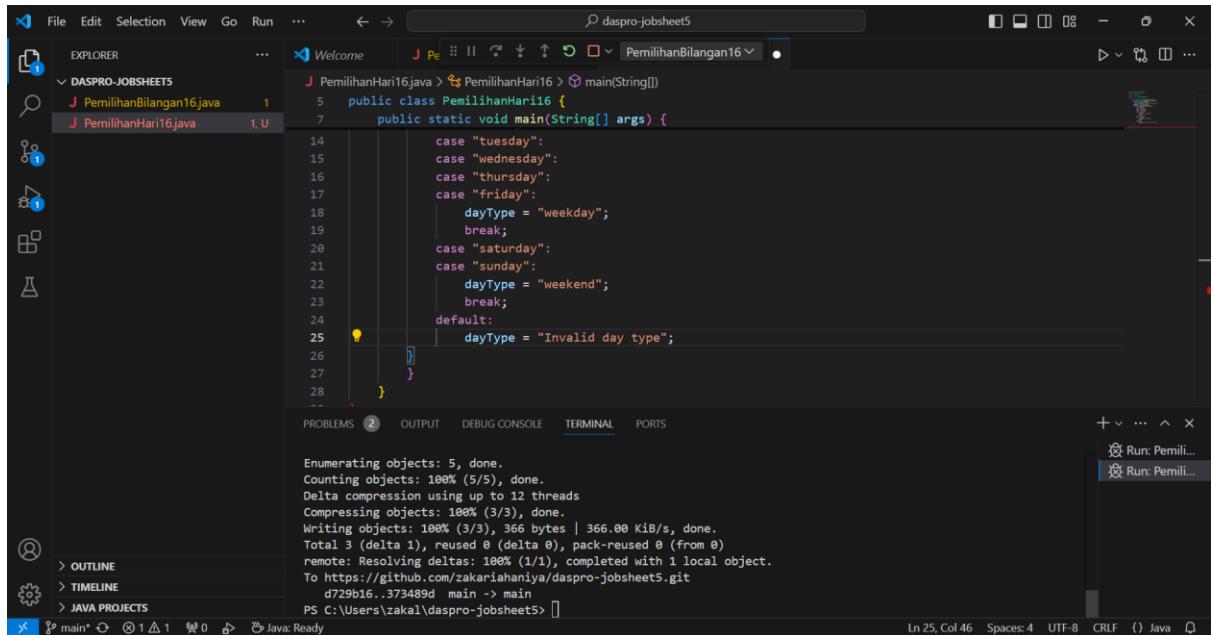


```
File Edit Selection View Go Run ... ← → 🔍 daspro-jobsheet5
EXPLORER DASPRO-JOBSEETS J PemilihanBilangan16.java 1 J PemilihanHari16.java 3, U ...
Welcome J PemilihanHari16.java > PemilihanHari16 > main(String[])
1 import java.util.Scanner;
2 /**
3  * PemilihanHari16
4  */
5 public class PemilihanHari16 {
6
7     Run | Debug
8     public static void main(String[] args) {
9         Scanner sc = new Scanner(System.in);
10        String dayName, dayType;
11        System.out.print("Input day name: ");
12        dayName = sc.nextLine();
13    }
14 }

PROBLEMS 4 OUTPUT DEBUG CONSOLE TERMINAL PORTS
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
d729b16..373489d main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
Ln 12, Col 9 Spaces: 4 UTF-8 CRLF {} Java Q

@ OUTLINE
@ TIMELINE
@ JAVA PROJECTS
x main* ⚡ 0 △ 4 ⚡ 0 ⚡ Java: Ready + ... ^ x
Run: Pemili...
Run: Pemili...
```

7. Tambahkan switch case untuk mengelompokkan tipe hari



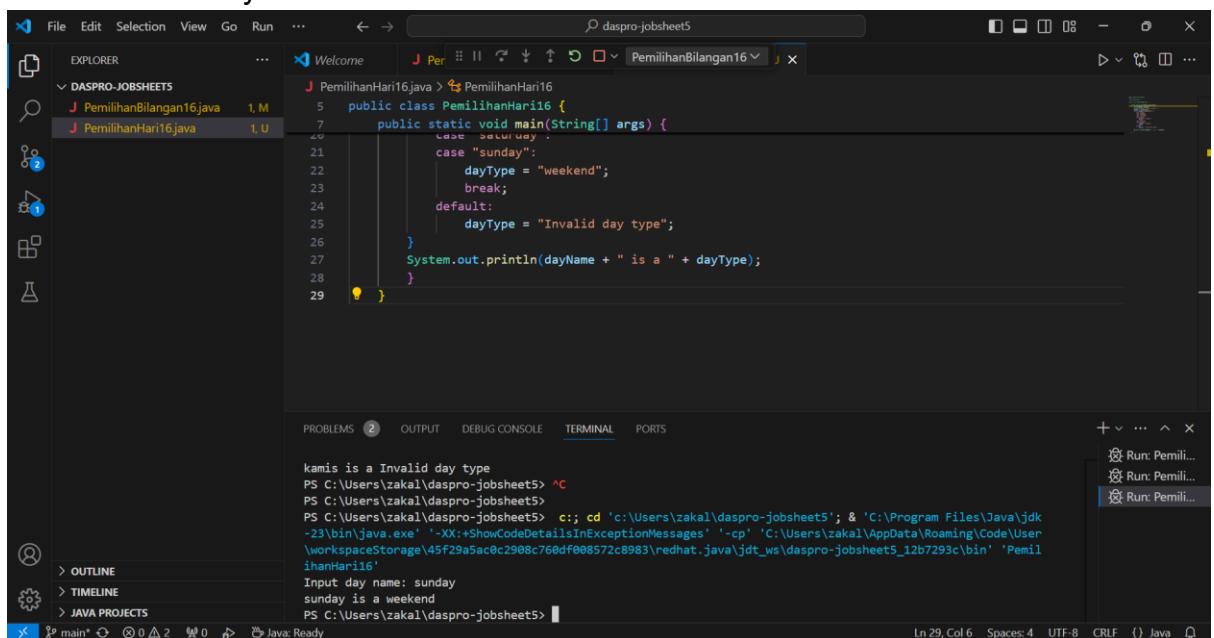
The screenshot shows the VS Code interface with the following code in the editor:

```
PemilihanHari16.java
5 public class PemilihanHari16 {
7     public static void main(String[] args) {
14         case "tuesday":
15         case "wednesday":
16         case "thursday":
17         case "friday":
18             dayType = "weekday";
19             break;
20         case "saturday":
21         case "sunday":
22             dayType = "weekend";
23             break;
24         default:
25             dayType = "Invalid day type";
26     }
27 }
28 }
```

The terminal below shows the output of the code execution:

```
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahanifa/daspro-jobsheet5.git
    d729b16..373489d main -> main
PS C:\Users\zakal\dapro-jobsheet5> [REDACTED]
```

8. Cetak hasil ke layer



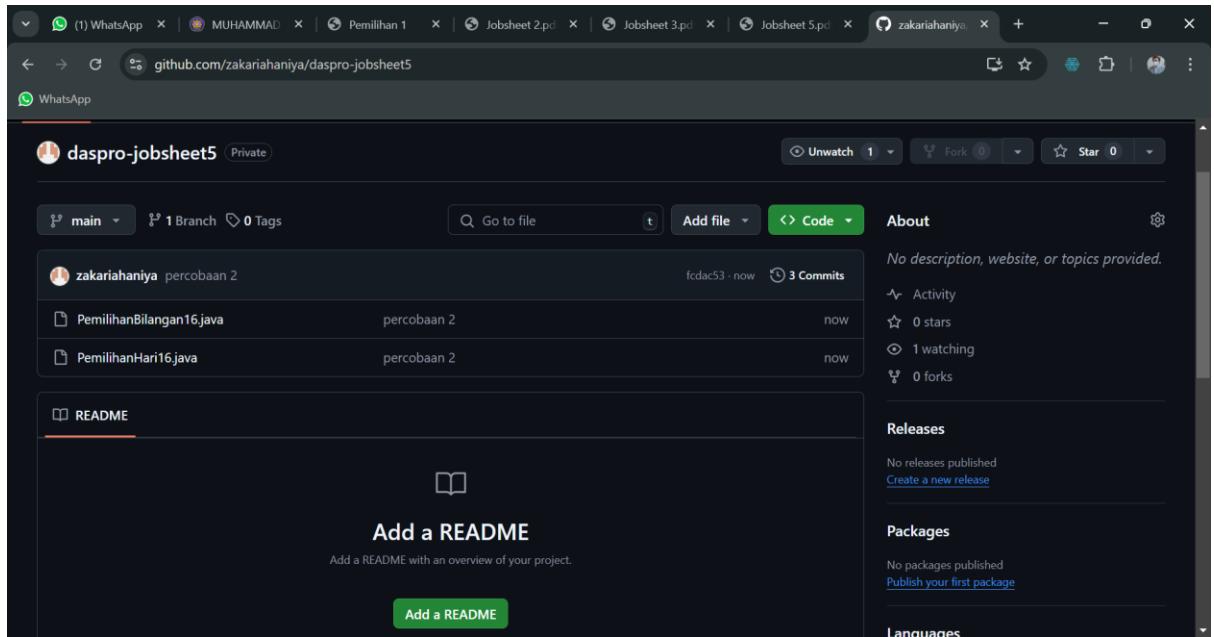
The screenshot shows the VS Code interface with the following code in the editor:

```
PemilihanHari16.java
5 public class PemilihanHari16 {
7     public static void main(String[] args) {
20         case "saturday":
21         case "sunday":
22             dayType = "weekend";
23             break;
24         default:
25             dayType = "Invalid day type";
26     }
27     System.out.println(dayName + " is a " + dayType);
28 }
29 }
```

The terminal below shows the output of the code execution:

```
kamis is an Invalid day type
PS C:\Users\zakal\dapro-jobsheet5> ^C
PS C:\Users\zakal\dapro-jobsheet5> PS C:\Users\zakal\dapro-jobsheet5> c:; cd 'c:\Users\zakal\dapro-jobsheet5'; & 'C:\Program Files\Java\jdk-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45F29a5ac0c2908c760df008572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'Pemil
ihanHari16'
Input day name: sunday
sunday is a weekend
PS C:\Users\zakal\dapro-jobsheet5> [REDACTED]
```

9. Push dan commit ke github



Pertanyaan :

1. Apa fungsi dari break;
2. Apa kegunaan dari toLowerCase()? Apa efeknya jika program tidak menggunakan toLowerCase()
3. Buat program baru dengan nama PemilihanHariDenganIf.java. Program menerima input bilangan bulat. Jika angka 1, 2, 3, 4, 5 maka output yang ditampilkan adalah "Weekday" sedangkan untuk 6 dan 7 adalah "Weekend". Selain angka tersebut, tampilkan "Invalid Number"
4. Push dan commit file tersebut ke github

Jawaban :

1. Fungsi dari break; adalah untuk menghentikan proses pencarian jika sudah di temukan

2. Kegunaan dari `toLowerCase()` adalah untuk mengubah semua huruf yg di masukkan menjadi huruf kecil agar bisa di baca oleh program

```

1 Welcome J Per PemilihanHari16.java > PemilihanHari16 > main(String[])
2   public class PemilihanHari16 {
3     public static void main(String[] args) {
4       Scanner sc = new Scanner(System.in);
5       String dayName, dayType;
6       System.out.print("Input day name: ");
7       dayName = sc.nextLine();
8       switch (dayName.toLowerCase()) {
9         case "monday":
10        case "tuesday":
11        case "wednesday":
12        case "thursday":
13        case "friday":
14          dayType = "weekday";
15          break;
16        case "saturday":
17        case "sunday":
18          dayType = "weekend";
19      }
20      System.out.println("Day type: " + dayType);
21    }
22  }

23 Sunday is a weekend
PS C:\Users\zakal\dapro-jobsheet5> ^C
PS C:\Users\zakal\dapro-jobsheet5> c:; cd 'c:\Users\zakal\dapro-jobsheet5'; & 'C:\Program Files\Java\jdk-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5ac0c2908c760df008572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'PemilihanHari16'
Input day name: Sunday
Sunday is a Invalid day type
PS C:\Users\zakal\dapro-jobsheet5>

-----



3 Welcome J Per PemilihanHariDenganIf16.java > PemilihanHariDenganIf16 > main(String[])
4   public class PemilihanHariDenganIf16 {
5     public static void main(String[] args) {
6       Scanner sc = new Scanner(System.in);
7       int number;
8       System.out.print("Input number: ");
9       number = sc.nextInt();
10      if (number >= 1 && number <= 5) {
11        System.out.println("Weekday");
12      } else if (number == 6 || number == 7) {
13        System.out.println("Weekend");
14      } else {
15        System.out.println("Invalid Number");
16      }
17    }
18  }

19 Invalid Number
PS C:\Users\zakal\dapro-jobsheet5> ^C
PS C:\Users\zakal\dapro-jobsheet5> c:; cd 'c:\Users\zakal\dapro-jobsheet5'; & 'C:\Program Files\Java\jdk-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5ac0c2908c760df008572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'PemilihanHariDenganIf16'
Input number: 1
Weekday
PS C:\Users\zakal\dapro-jobsheet5>

```

- 3.

GitHub repository page for `daspro-jobsheet5`. The repository is private, has 1 branch, and 0 tags. It contains 4 commits from `zakariahaniya` with titles: `tugas percobaan 2`, `percobaan 2`, `tugas percobaan 2`, and `tugas percobaan 2`. The repository has 0 stars, 1 watching, and 0 forks.

4.

Percobaan 3

1. Buat file baru dengan nama Kafe.java

```
File Edit Selection View Go Run ... < - > J daspro-jobsheet5
EXPLORER DASPRO-JOBSCHEETS J Kafe16.java U
J PemilihanBilangan16.java 1
J PemilihanHari16.java 1
J PemilihanHariDenganIf16.java 1
J Kafe16.java > Kafe16
1 /**
2  * Kafe16
3 */
4 public class Kafe16 {
5
6 }
7

PROBLEMS 3 OUTPUT DEBUG CONSOLE TERMINAL PORTS
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
Ln 6, Col 5 Spaces: 4 UTF-8 CRLF {} Java
```

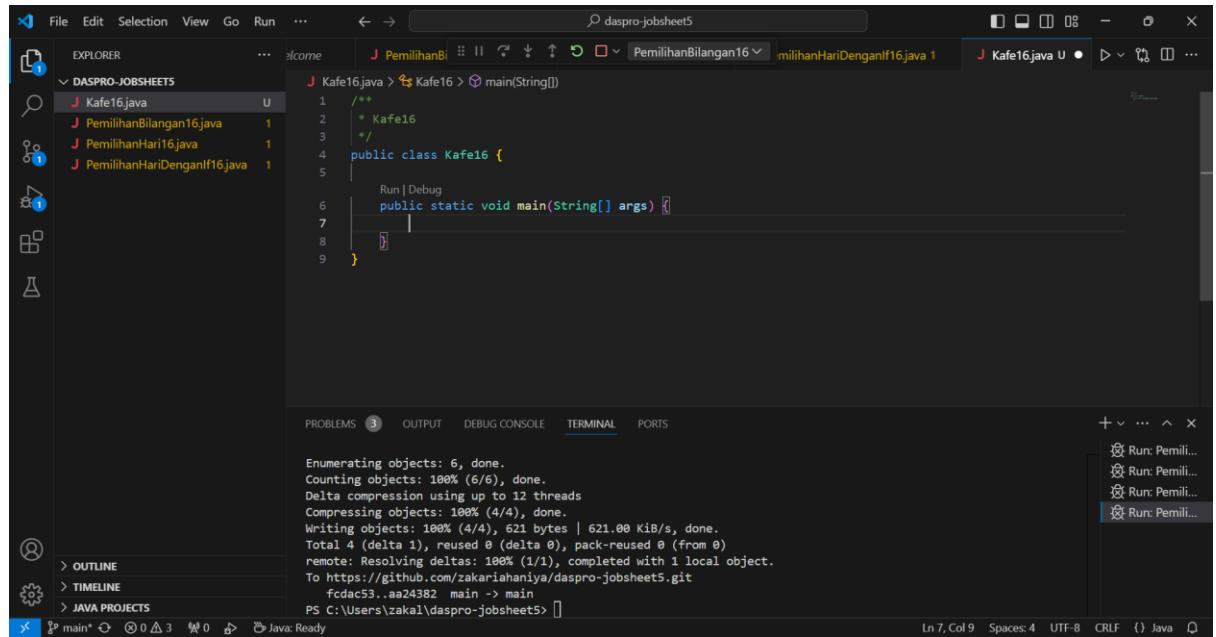
VS Code editor showing a Java file named `Kafe16.java` with the following code:

```
/** * Kafe16 */ public class Kafe16 { }
```

The terminal output shows the file was successfully pushed to GitHub:

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
```

2. Buatlah struktur dasar program java beserta fungsi main()



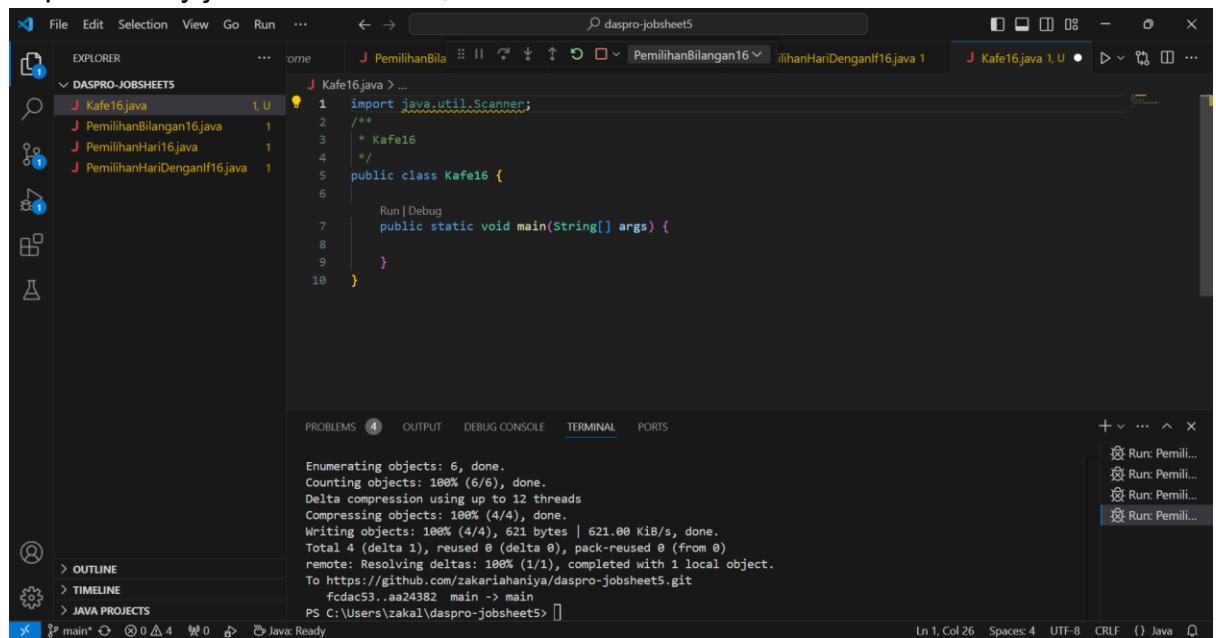
```
File Edit Selection View Go Run ... < > daspro-jobsheet5
EXPLORER DASPRO-JOBSEETS J Kafe16.java PemilihanBilangan16.java PemilihanHariDenganIf16.java J Kafe16.java
1 /**
2  * Kafe16
3  */
4 public class Kafe16 {
5
6     Run | Debug
7     public static void main(String[] args) {
8
9 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
Ln 7, Col 9 Spaces: 4 UTF-8 CRLF {} Java
```

3. Import library java.util.Scanner;



```
File Edit Selection View Go Run ... < > daspro-jobsheet5
EXPLORER DASPRO-JOBSEETS J Kafe16.java PemilihanBilangan16.java PemilihanHariDenganIf16.java J Kafe16.java 1, U
1 import java.util.Scanner;
2 /**
3  * Kafe16
4  */
5 public class Kafe16 {
6
7     Run | Debug
8     public static void main(String[] args) {
9
10 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5> []
Ln 1, Col 26 Spaces: 4 UTF-8 CRLF {} Java
```

4. Deklarasi scanner

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "DASPRO-JOBSCHEETS" containing four files: Kafe16.java, PemilihanBilangan16.java, PemilihanHari16.java, and PemilihanHariDenganIf16.java.
- Code Editor:** Displays the content of Kafe16.java. The code defines a class Kafe16 with a main method that uses a Scanner object to read input from System.in.
- Terminal:** Shows the output of a build process:

```
Enumerating objects: 6, done.  
Counting objects: 100% (6/6), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.  
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/zakariahaniaya/daspro-jobsheet5.git  
 ffdac53...aa24382 main -> main  
PS C:\Users\zakal\daspro-jobsheet5>
```
- Run Control:** A sidebar on the right lists four run configurations, all of which are currently disabled (indicated by a greyed-out icon).

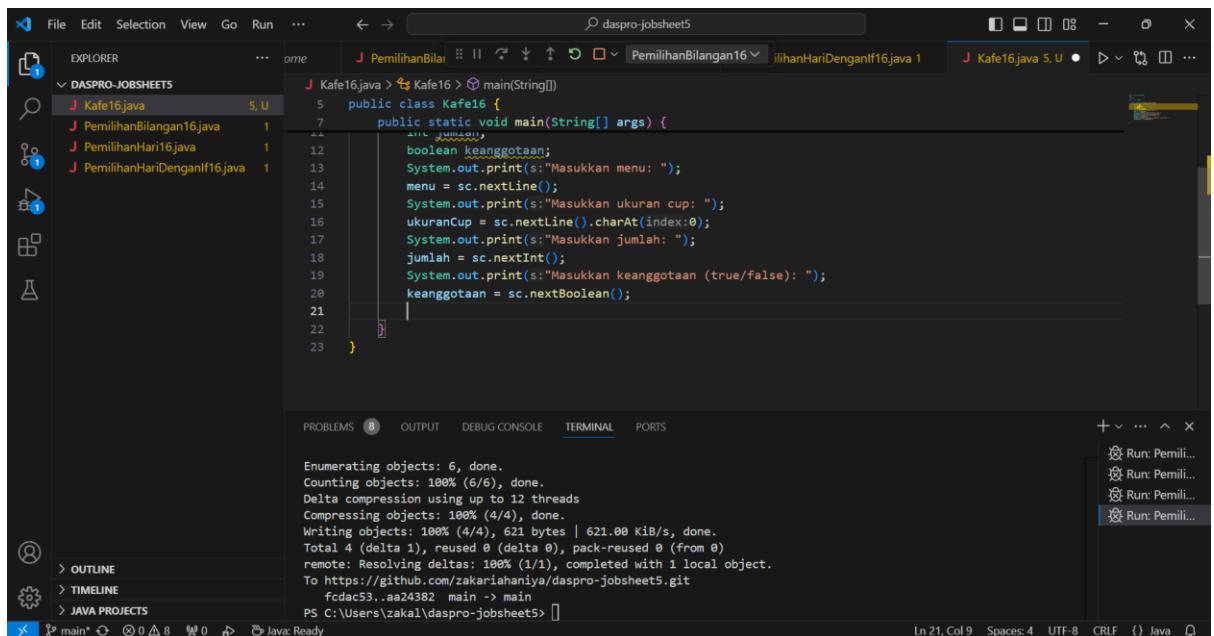
5. Deklarasikan variable untuk menyimpan nilai input

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "DASPRO-JOBSCHEETS" containing four files: Kafe16.java, PemilihanBilangan16.java, PemilihanHari16.java, and PemilihanHariDenganIf16.java.
- Code Editor:** Displays the content of Kafe16.java. The code defines a class Kafe16 with a main method that declares variables: scanner, menu, ukuranCup, jumlah, and keanggotaan.
- Terminal:** Shows the output of a build process:

```
Enumerating objects: 6, done.  
Counting objects: 100% (6/6), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (4/4), done.  
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.  
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)  
remote: Resolving deltas: 100% (1/1), completed with 1 local object.  
To https://github.com/zakariahaniaya/daspro-jobsheet5.git  
 ffdac53...aa24382 main -> main  
PS C:\Users\zakal\daspro-jobsheet5>
```
- Run Control:** A sidebar on the right lists four run configurations, all of which are currently disabled (indicated by a greyed-out icon).

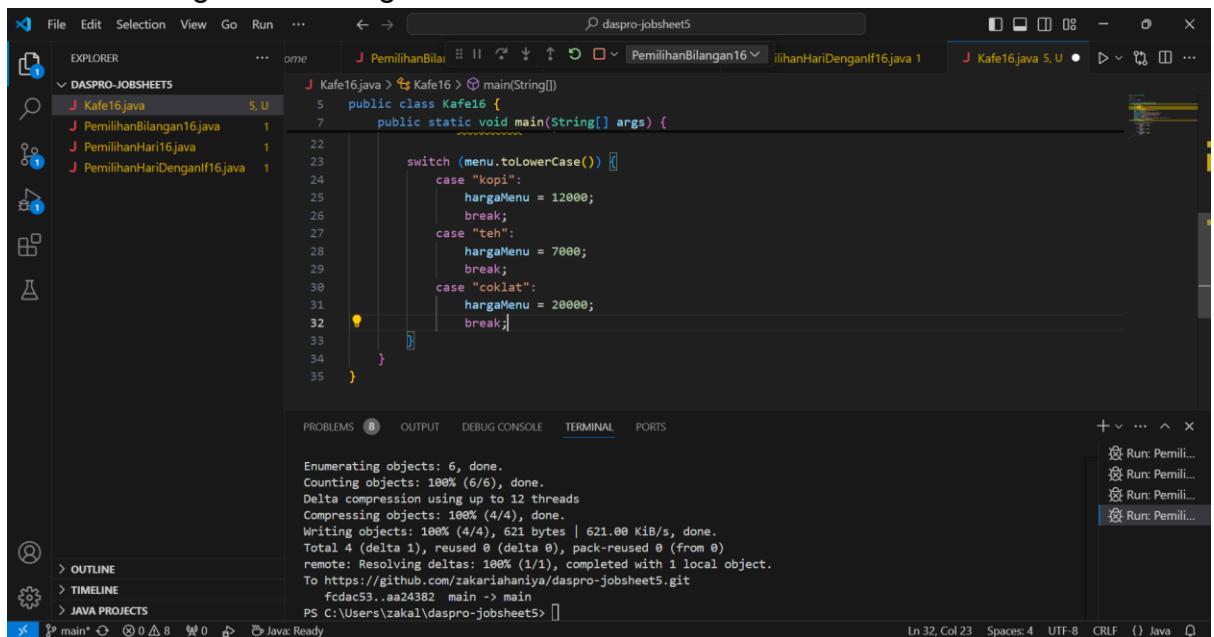
6. Tuliskan perintah untuk membaca input kemudian menyimpannya ke dalam variable



```
J Kafe16.java > Kafe16 > main(String[])
5 public class Kafe16 {
6     public static void main(String[] args) {
7         int jumlah;
8         boolean keanggotaan;
9         Scanner sc = new Scanner(System.in);
10        System.out.print("Masukkan menu: ");
11        String menu = sc.nextLine();
12        System.out.print("Masukkan ukuran cup: ");
13        String ukuranCup = sc.nextLine().charAt(0);
14        System.out.print("Masukkan jumlah: ");
15        int jumlah = sc.nextInt();
16        System.out.print("Masukkan keanggotaan (true/false): ");
17        boolean keanggotaan = sc.nextBoolean();
18    }
19 }
```

The screenshot shows the VS Code interface with the code editor displaying Java code. The code reads input from the user using a Scanner object named 'sc'. It prompts for 'menu', 'ukuranCup', 'jumlah', and 'keanggotaan'. The code editor has tabs for 'Kafe16.java' and 'Kafe16.java 5.U'. The bottom status bar shows 'Java Ready'.

7. Tentukan harga menu dengan switch-case



```
J Kafe16.java > Kafe16 > main(String[])
5 public class Kafe16 {
6     public static void main(String[] args) {
7         String menu;
8         int hargaMenu;
9         menu = "kopi";
10        switch (menu.toLowerCase()) {
11            case "kopi":
12                hargaMenu = 12000;
13                break;
14            case "teh":
15                hargaMenu = 7000;
16                break;
17            case "coklat":
18                hargaMenu = 20000;
19                break;
20        }
21    }
22 }
```

The screenshot shows the VS Code interface with the code editor displaying Java code using a switch-case statement to determine the price of a menu based on its name. The code editor has tabs for 'Kafe16.java' and 'Kafe16.java 5.U'. The bottom status bar shows 'Java Ready'.

8. Hitung total harga

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows four files: Kafe16.java, PemilihanBilangan16.java, PemilihanHari16.java, and PemilihanHariDenganIf16.java.
- Editor:** Displays the Kafe16.java file with the following code:

```
public class Kafe16 {
    public static void main(String[] args) {
        int menu = 12000;
        break;
        case "teh":
            hargaMenu = 7000;
            break;
        case "coklat":
            hargaMenu = 20000;
            break;
    }
    double totalHarga = hargaMenu * jumlah;
}
```
- Terminal:** Shows the output of a git commit command:

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniaya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5>
```
- Status Bar:** Shows the current line (Ln 34, Col 48), spaces (Spaces: 4), encoding (UTF-8), and file type (CRLF).

9. Update total harga berdasarkan ukuran cup yang dipilih

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows four files: Kafe16.java, PemilihanBilangan16.java, PemilihanHari16.java, and PemilihanHariDenganIf16.java.
- Editor:** Displays the Kafe16.java file with the following code:

```
public class Kafe16 {
    public static void main(String[] args) {
        switch (ukuranCup) {
            case 'S':
                break;
            case 'M':
                totalHarga += 0.25 * totalHarga;
                break;
            case 'L':
                totalHarga += 0.4 * totalHarga;
                break;
        }
    }
}
```
- Terminal:** Shows the output of a git commit command:

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahaniaya/daspro-jobsheet5.git
  fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5>
```
- Status Bar:** Shows the current line (Ln 43, Col 23), spaces (Spaces: 4), encoding (UTF-8), and file type (CRLF).

10. Tentukan nilai diskon berdasarkan status keanggotaan pelanggan kemudian hitung nominal bayar

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows files in the 'DASPRO-JOBSCHEETS' folder: Kafe16.java (2, U), PemilihanBilangan16.java (1), PemilihanHari16.java (1), and PemilihanHariDenganIf16.java (1).
- Code Editor:** Displays the Kafe16.java file with the following code:

```
J Kafe16.java > Kafe16 > main(String[])
5 public class Kafe16 {
6     public static void main(String[] args) {
7         double totalHarga = 0;
8         case 'M':
9             totalHarga += 0.25 * totalHarga;
10            break;
11        case 'L':
12            totalHarga += 0.4 * totalHarga;
13            break;
14        }
15        double diskon = keanggotaan ? 0 : 0.1;
16        double nominalBayar = totalHarga - (diskon * totalHarga);
17    }
18 }
```
- Terminal:** Shows the output of the Java build process and the command run in the terminal:

```
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 621 bytes | 621.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/zakariahania/daspro-jobsheet5.git
   fdac53...aa24382 main -> main
PS C:\Users\zakal\daspro-jobsheet5>
```
- Run Bar:** Shows multiple run configurations for 'Pemilih...' and one for 'Kafe16'.

11. Tampilkan ringkasan item yang dibeli serta nominal bayar

The screenshot shows the VS Code interface with the following details:

- File Explorer:** Shows files in the 'DASPRO-JOBSCHEETS' folder: Kafe16.java (1, U), PemilihanBilangan16.java (1), PemilihanHari16.java (1), and PemilihanHariDenganIf16.java (1).
- Code Editor:** Displays the Kafe16.java file with the following code:

```
J Kafe16.java > Kafe16 > main(String[])
5 public class Kafe16 {
6     public static void main(String[] args) {
7         case 'M':
8             totalHarga += 0.25 * totalHarga;
8             break;
9         case 'L':
10            totalHarga += 0.4 * totalHarga;
11            break;
12        }
13        double diskon = keanggotaan ? 0 : 0.1;
14        double nominalBayar = totalHarga - (diskon * totalHarga);
15        System.out.println("Item pembelian: " + jumlah + " " + menu + " dengan ukuran cup " + ukuranCup);
16        System.out.println("Nominal bayar: " + nominalBayar);
17    }
18 }
```
- Terminal:** Shows the output of the Java build process and the command run in the terminal:

```
-23\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5ac0c2908c760df008572c8983\redhat.java\jdt_ws\daspro-jobsheet5_12b7293c\bin' 'Kafe16'
Masukkan menu: kopi
Masukkan ukuran cup: L
Masukkan jumlah: 1
Masukkan keanggotaan (true/false): true
Item pembelian: 1 kopi dengan ukuran cup L
Nominal bayar: 16800.0
PS C:\Users\zakal\daspro-jobsheet5>
```
- Run Bar:** Shows multiple run configurations for 'Pemilih...' and one for 'Kafe16'.

Pertanyaan :

1. Jelaskan apa yang dilakukan oleh statement di bawah ini
ukuranCup = sc.nextLine().charAt(0)
2. Dari percobaan di atas, apakah pemilihan dengan switch-case tanpa default dapat di-compile dan di-run? Simpulkan apakah default merupakan elemen wajib
3. Modifikasi kode program di atas untuk meng-handle jika user memilih size selain S, M, atau L dengan cara menambahkan default. Berikan notifikasi bahwa size yang dipilih tidak tersedia.

4. Apakah fungsi dari default dalam switch-case?
5. Mengapa switch-case untuk pemilihan menu menggunakan petik 2, sedangkan pada pemilihan ukuran cup menggunakan petik 1? Kapan case tidak menggunakan tanda petik?
6. Push dan commit file tersebut ke github

Jawaban :

1. Maksud dari statement dari pertanyaan adalah untuk menginput data yang dimasukkan pada variable ukuranCup tipe data char
2. Bisa di-run, kesimpulannya default bukan merupakan elemen wajib karena fungsi default adalah memunculkan hasil yang tidak ada di kondisi yang diinginkan

```

File Edit Selection View Go Run ...
J PemilihanBilangan16 J Kafe16.java 1, U ...
J Kafe16.java > Kafe16 > main(String[])
public class Kafe16 {
    public static void main(String[] args) {
        case 'M':
            totalHarga += 0.25 * totalHarga;
            break;
        case 'L':
            totalHarga += 0.4 * totalHarga;
            break;
        default:
            System.out.println("Size yang dipilih tidak tersedia");
            break;
    }
    double diskon = keanggotaan ? 0 : 0.1;
    double nominalBayar = totalHarga - (diskon * totalHarga);
    System.out.println("Item pembelian: " + jumlah + " " + menu + " dengan ukuran cup " + ukuranCup);
    System.out.println("Nominal bayar: " + nominalBayar);
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

n\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zakal\AppData\Roaming\Code\User\workspaceStorage\45f29a5ac0c2988c760df008572c8983\redhat.java\jdt_ws\dapro-jobsheet5_12b7293c\bin' 'Kafe16'
Masukkan menu: kopi
Masukkan ukuran cup: A
Masukkan jumlah: 1
Masukkan keanggotaan (true/false): true
Size yang dipilih tidak tersedia
Item pembelian: 1 kopi dengan ukuran cup A
Nominal bayar: 12000.0
PS C:\Users\zakal\dapro-jobsheet5>

```

+ ... ^ x

Run: Pemili... Run: Pemili... Run: Pemili... Run: Pemili... Run: Kafe16

- 3.
4. Fungsi dari default adalah mengopraskan program alternatif terakhir jika kondisi yang diinginkan tidak ada yang terpenuhi
5. Karena string terdiri dari urutan karakter sedangkan char hanya satu karakter,
6. Saat menggunakan tipe data yang tidak memerlukan pemisahan karakter

Tugas

1.

The screenshot shows a Java IDE interface with multiple tabs open. The active tab contains the following Java code:

```
public class Siakad17 {
    public static void main(String[] args) {
        String nama, nim;
        int absen, nilaiAkhirAngka;
        char nilaiAkhirHuruf;
        String kualifikasi;

        nama = "Betin";
        nim = "12345";
        absen = 11;
        nilaiAkhirAngka = 83;
        nilaiAkhirHuruf = 'B';
        kualifikasi = "Sangat Baik";

        System.out.println("Nama: " + nama + " NIM: " + nim);
        System.out.println("Absen: " + absen);
        System.out.println("Nilai Akhir: " + nilaiAkhirAngka);
        System.out.println("Nilai Akhir Huruf: " + nilaiAkhirHuruf);
        System.out.println("Kualifikasi: " + kualifikasi);
    }
}
```

The terminal window below shows the execution of the program:

```
Masukkan nomor absen: 11
Masukkan nilai kuis: 83
Masukkan nilai tugas: 74
Masukkan nilai ujian: 91
Nama: Betin NIM: 12345
Absen: 11
Nilai Akhir: 82.66666666666666
Nilai Akhir Huruf: A
Kualifikasi: Sangat Baik
```

PS C:\Users\zakal\dapro-jobsheet5>

1.

2.

The screenshot shows a Java IDE interface with multiple tabs open. The active tab contains the following Java code:

```
public class LatihanIndividu16 {
    public static void main(String[] args) {
        int usia;
        String kategori;

        if (usia >= 0 && usia <= 12) {
            kategori = "Anak";
        } else if (usia > 12 && usia <= 19) {
            kategori = "Remaja";
        } else if (usia > 19 && usia <= 64) {
            kategori = "Dewasa";
        } else if (usia > 64) {
            kategori = "Lansia";
        } else {
            System.out.println("Input tidak valid");
        }

        System.out.println("Usia: " + usia);
        System.out.println("Kategori: " + kategori);
    }
}
```

The terminal window below shows the execution of the program:

```
Masukkan usia: -1
Input tidak valid
Usia: -1
Kategori: Tidak ada
```

PS C:\Users\zakal\dapro-jobsheet5>

2.

