

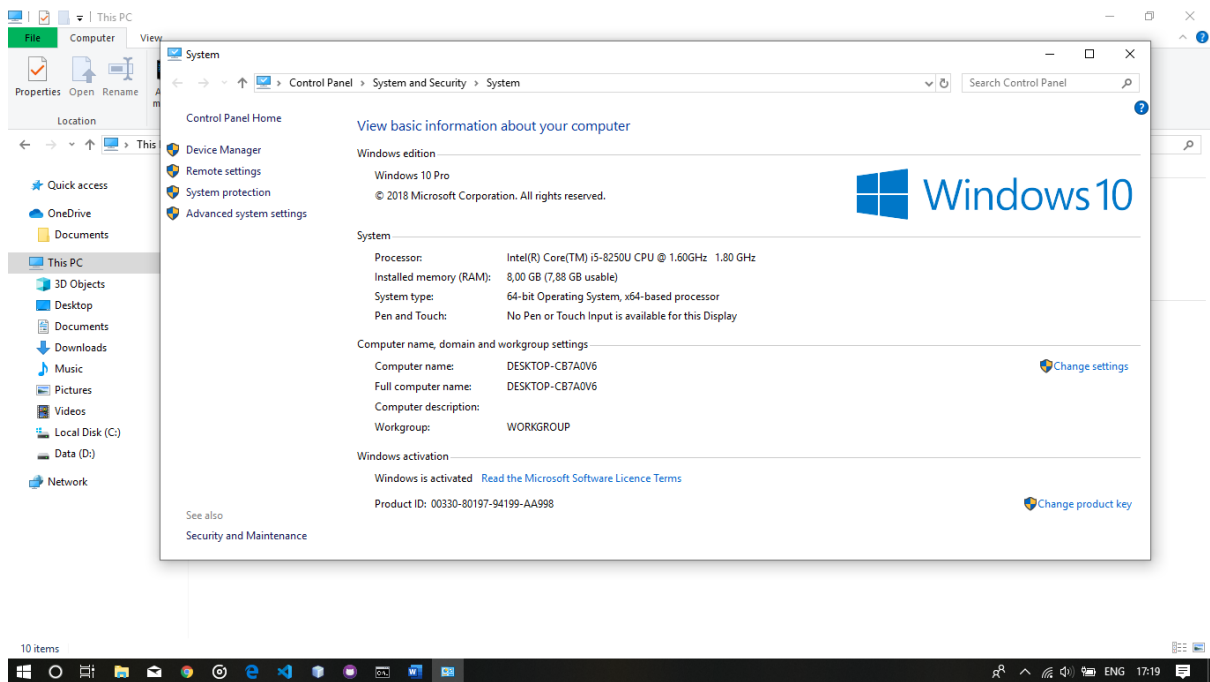
Laporan Praktikum PBO  
Instalasi Java dan Tugas 1.2



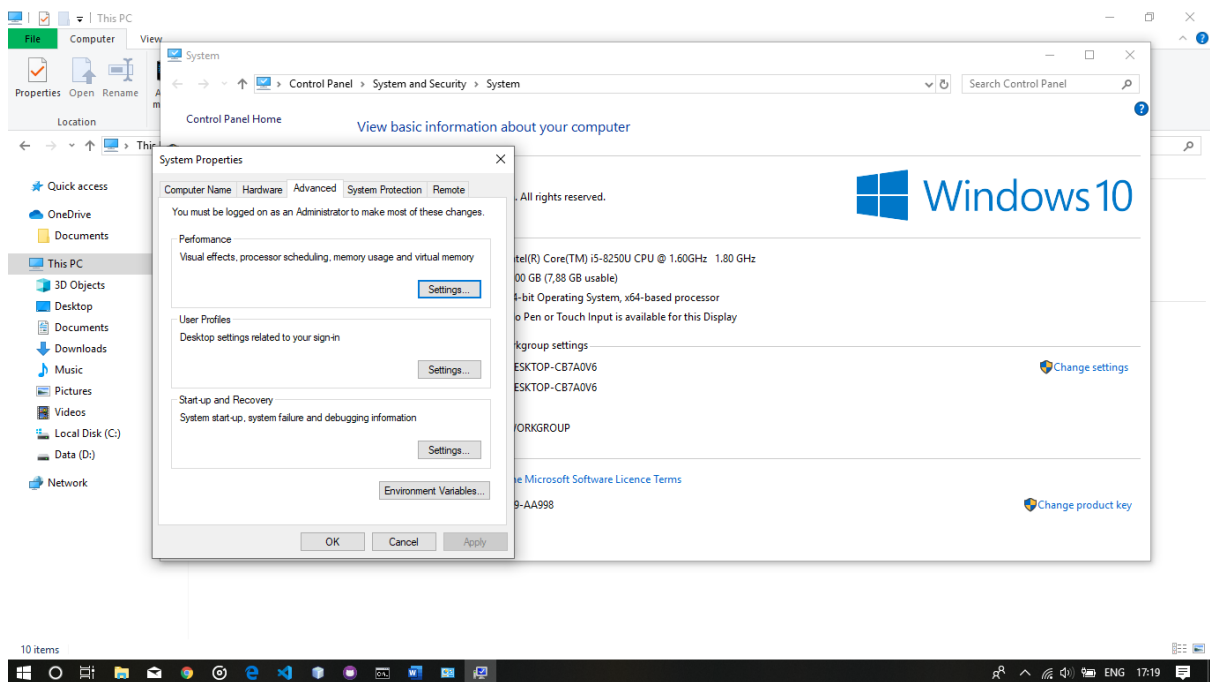
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0110218053

## Masuk ke properties MyComputer/This PC



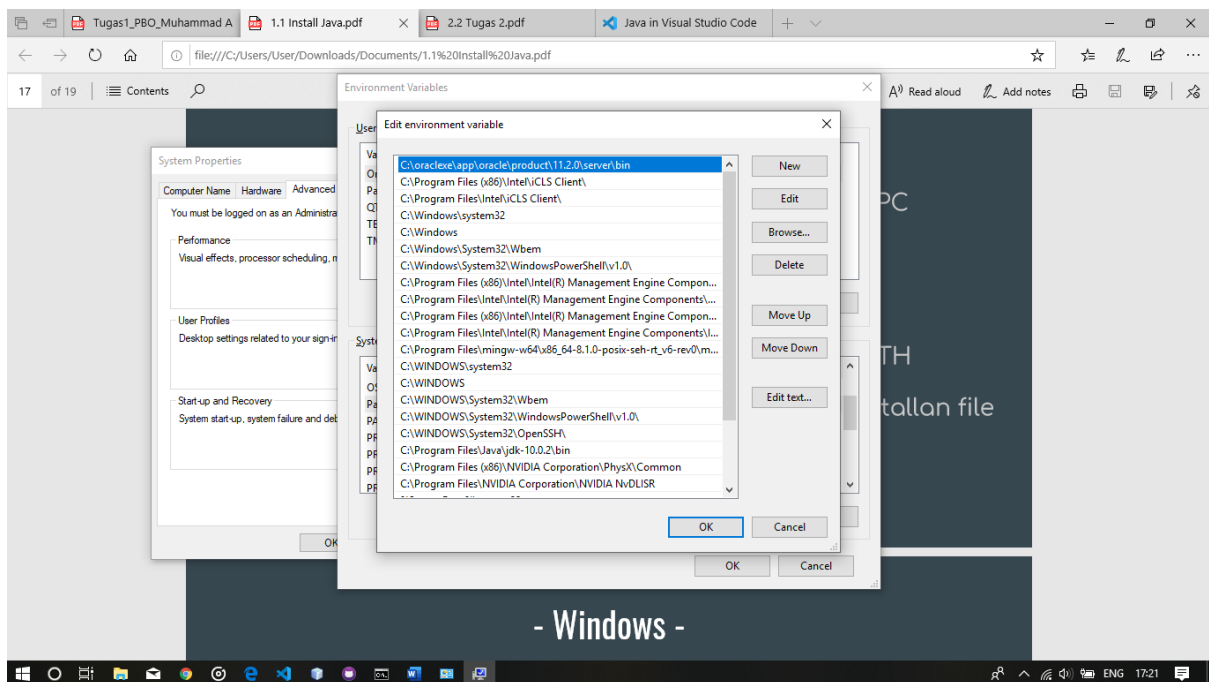
## Masuk Tab advance system setting



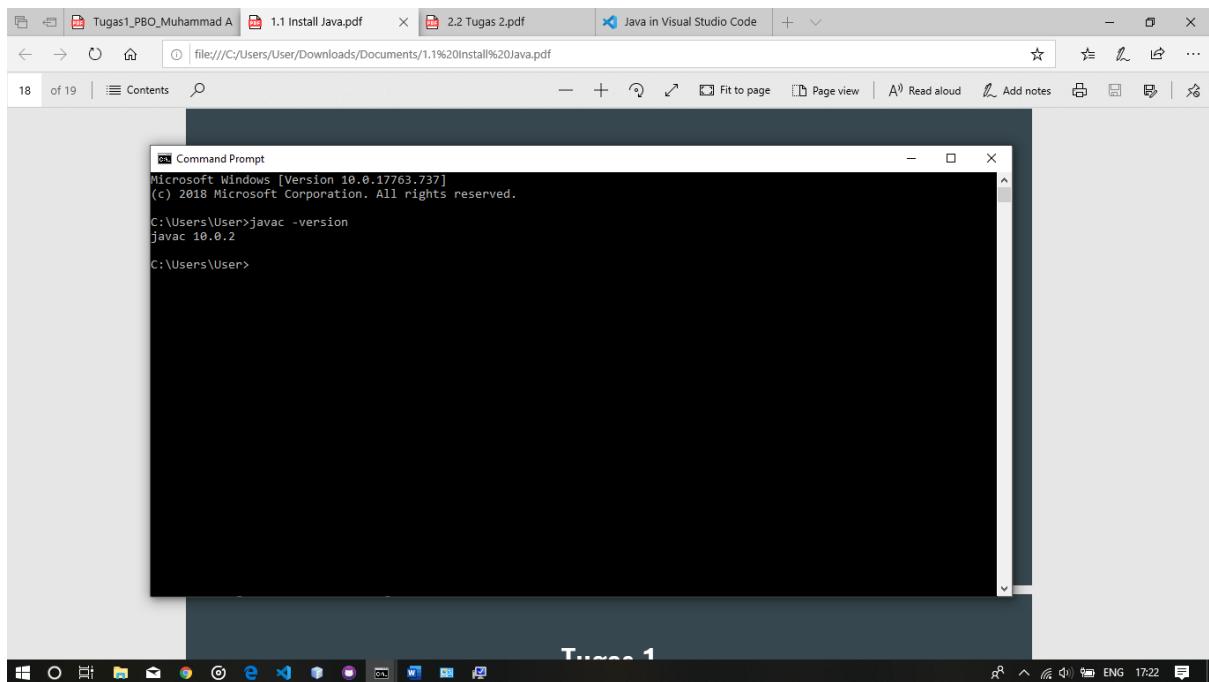
## The screenshot shows a Windows 10 desktop environment. In the background, there is a File Explorer window open to 'This PC' and a Control Panel window set to 'System'. Overlaid on top of these is the 'Environment Variables' dialog box. This dialog has two tabs: 'User variables for User' and 'System variables'. The 'User variables' tab is active, displaying a list of user-specific environment variables. These include 'OneDrive' pointing to 'C:\Users\User\AppData\OneDrive', 'Path' which includes various system and application paths, 'QT\_DEVICE\_PIXEL\_RATIO' set to 'auto', 'TEMP' at 'C:\Users\User\AppData\Local\Temp', and 'TMP' also at 'C:\Users\User\AppData\Local\Temp'. Below this list are buttons for 'New...', 'Edit...', and 'Delete'. The 'System variables' tab is partially visible underneath, showing variables like 'asl.log' (Destination=file), 'ComSpec' (C:\WINDOWS\system32\cmd.exe), 'DriverData' (C:\Windows\System32\Drivers\DriverData), 'NUMBER\_OF\_PROCESSORS' (8), 'OS' (Windows\_NT), 'Path' (including Oracle and standard Windows paths), and 'PATHEXT' (.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC). It also features 'New...', 'Edit...', and 'Delete' buttons. At the bottom of the 'Environment Variables' dialog are 'OK' and 'Cancel' buttons. The taskbar at the very bottom contains icons for various applications, and the system tray on the right shows network, volume, and language settings along with the time '17:19'.

The screenshot shows a Windows 10 desktop with several windows open. In the foreground, the 'Environment Variables' dialog box is open, displaying 'User variables for User' and 'System variables'. The 'User variables' section shows 'OneDrive' and 'Path'. The 'System variables' section shows 'Destination=File', 'ComSpec', 'DriverData', 'NUMBER\_OF\_PROCESSORS', 'OS', 'Path', and 'PATHEXT'. The 'Control Panel' window is also open in the background, showing the 'System' section. The taskbar at the bottom shows various application icons, and the system tray on the right shows the date and time as 17:19.

## Meng edit dan menambahkan direktori bin penginstallan file



## Run CMD



## Tugas PBO 1.2

1. Cek dengan menggunakan perintah

```
Microsoft Windows [Version 10.0.17763.737]
(c) 2018 Microsoft Corporation. All rights reserved.

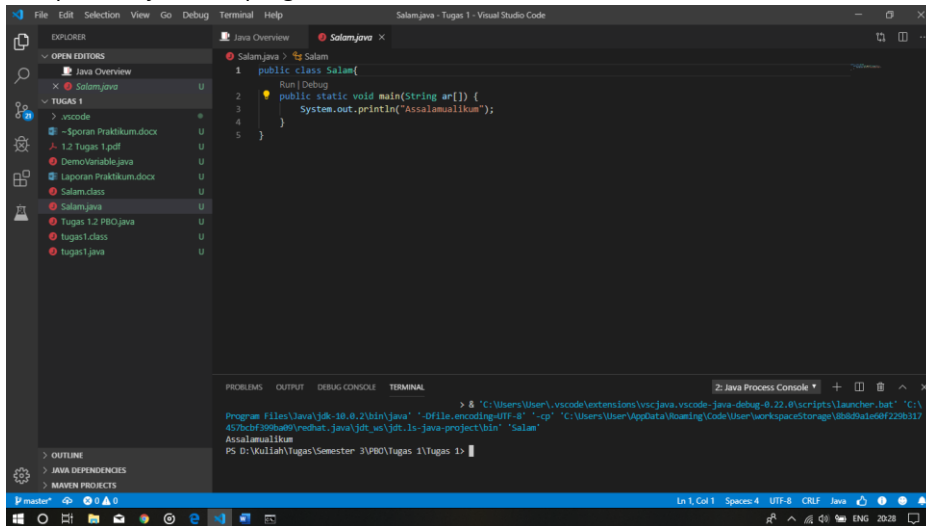
C:\Users\User>java -version
java version "10.0.2" 2018-07-17
Java(TM) SE Runtime Environment 10.3 (build 10.0.2+13)
Java HotSpot(TM) 64-Bit Server VM 10.3 (build 10.0.2+13, mixed mode)

C:\Users\User>javac -version
javac 10.0.2

C:\Users\User>
```

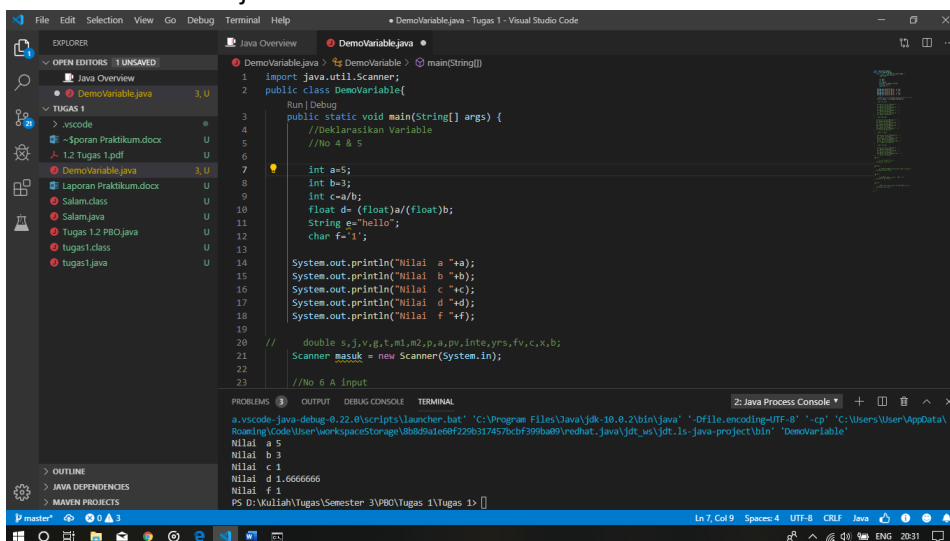
2. kode program berikut kedalam file dengan nama Salam.java

3. Compile dan jalankan program tersebut



4. Deklarasikanlah variable-variable dalam program DemoVariable.java

5. nilai variable **d** menjadi benar



6. A.

The screenshot shows an IDE with the following components:

- Menu Bar:** File, Edit, Selection, View, Go, Debug, Terminal, Help.
- Toolbar:** Icons for file operations, search, and running.
- Project Explorer:**
  - src/main/java
    - Tugas\_12\_PROJ.java (selected)
  - TUGAS 12
    - src
      - Tugas\_12\_PROJ.java (selected)
- Editor:**

```

1  Scanner main() {
2      Scanner s = new Scanner(System.in);
3
4      //No 6 A Input
5      System.out.print("Masukan 3 = ");
6      j = masuk.nextDouble();
7      System.out.print("Masukan V = ");
8      v = masuk.nextDouble();
9      System.out.print("Masukan T = ");
10     t = masuk.nextDouble();
11     System.out.print("Masukan G = ");
12     g = masuk.nextDouble();
13
14     //No 6 B Input
15     j = 0;
16     ...
17     //No 6 C Input
18     ...
19     //No 6 D Input
20     ...
21     //No 6 E Input
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```

**B.**

The screenshot displays the IntelliJ IDEA IDE with the following components:

- File Explorer:** Shows the project structure with files like `Tugas_12_PROJ.java` and `Tugas_12.java`.
- Code Editor:** Contains the Java code for `Tugas_12_PROJ.java`. The code is as follows:
 

```

1  package tugas12;
2  import java.util.Scanner;
3
4  public class Tugas_12_PROJ {
5      public static void main(String[] args) {
6          Scanner scanner = new Scanner(System.in);
7
8          //No 6 A Input
9
10         //No 6 B Input
11
12         System.out.print("Masukan A = ");
13         a = scanner.nextDouble();
14         System.out.print("Masukan M1 = ");
15         m1 = scanner.nextDouble();
16         System.out.print("Masukan M2 = ");
17         m2 = scanner.nextDouble();
18         System.out.print("Masukan P = ");
19         p = scanner.nextDouble();
20
21         //No 6 C Input
22
23         //No 6 D Input
24
25         //No 6 E
26
27         g = (Math.PI * (a^2 + b^2) / (c^2 * p));
28         System.out.println(g);
29     }
30 }

```
- Run/Debug Console:** Shows the output of the program:
 

```

Masukan A = 3
Masukan M1 = 2
Masukan M2 = 1
Masukan P = 2
799.4375664862339
P5 D:\Mahasiswa\Semester 3\PROJ\Tugas 12\Mahasiswa\PROJ\Tugas_12_

```
- Bottom Status Bar:** Indicates the file is in the `Tugas_12_PROJ` project.

C.

The screenshot shows the Visual Studio Code editor with a Java file named `Tugas_12_PBO.java` open. The code is a simple program that calculates the sum of a series of numbers from 1 to 100. The code is as follows:

```

25 // ...
35 //No 6 8 Input
36 //No 6 8 Input
47 //No 6 8 Input
48 System.out.print("Masukan PV = ");
49 pv = masuk.nextDouble();
50 System.out.print("Masukan DIT = ");
51 inte = masuk.nextInt();
52 System.out.print("Masukan YRS = ");
53 yrs = masuk.nextDouble();
54
55 //No 6 0 Input
56 > /* ...
64 //No 6 4
65 > /* ...
68 //No 6 8
70 > /* ...
74 //No 6 6
75
76 f=pu*Math.pow(1 + inte / 100 , yrs);
77 System.out.println(fv);
78
79

```

The Explorer panel on the left shows the file structure, and the Output panel at the bottom shows the program's execution.

D.

```
46 //No 6 C Input
47 > /*
48 //No 6 D Input
49
50 System.out.print("Masukan A = ");
51 a = masuk.nextDouble();
52 System.out.print("Masukan B = ");
53 b = masuk.nextDouble();
54 System.out.print("Masukan Cos x = ");
55 x = masuk.nextDouble();
56
57 //No 6 A
58 > /*
59 //No 6 B
60 > /*
61 //No 6 C
62 > /*
63 //No 6 D
64
65 c=Math.sqrt((a*a)+(b*b)-2*(a*b)*Math.cos(x));
66 System.out.println(c);
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Java Process Console

PS D:\Mulliah\TugasSemester 3\PRO\Tugas 1\Mulliah\PRO\Tugas 1.2>

7. program yang mencetak warna keramik catur

```
74 //No 6 C
75 > /*
76 //No 6 D
77 > /*
78 //No 7
79
80 int baris, kolom;
81
82 System.out.print("Baris : ");
83 baris = masuk.nextInt();
84
85 System.out.print("Kolom : ");
86 kolom = masuk.nextInt();
87
88 if ((baris%2==0) && (kolom%2==0))
89 {
90 System.out.println("Hitam");
91 }
92 else
93 {
94 System.out.println("Putih");
95 }
96
97
98
99
100
101
102
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Java Process Console

PS D:\Mulliah\TugasSemester 3\PRO\Tugas 1\Mulliah\PRO\Tugas 1.2> cd "d:\Mulliah\TugasSemester 3\PRO\Tugas 1\Mulliah\PRO\Tugas 1.2" & "C:\Users\User\...\java" -Dfile.encoding=UTF-8 -c p "C:\Users\User\AppData\Local\Microsoft\Windows\apps\code\code.exe" workspace\Tugas 1\Mulliah\PRO\Tugas 1.2

Baris : 2  
Kolom : 3  
Putih