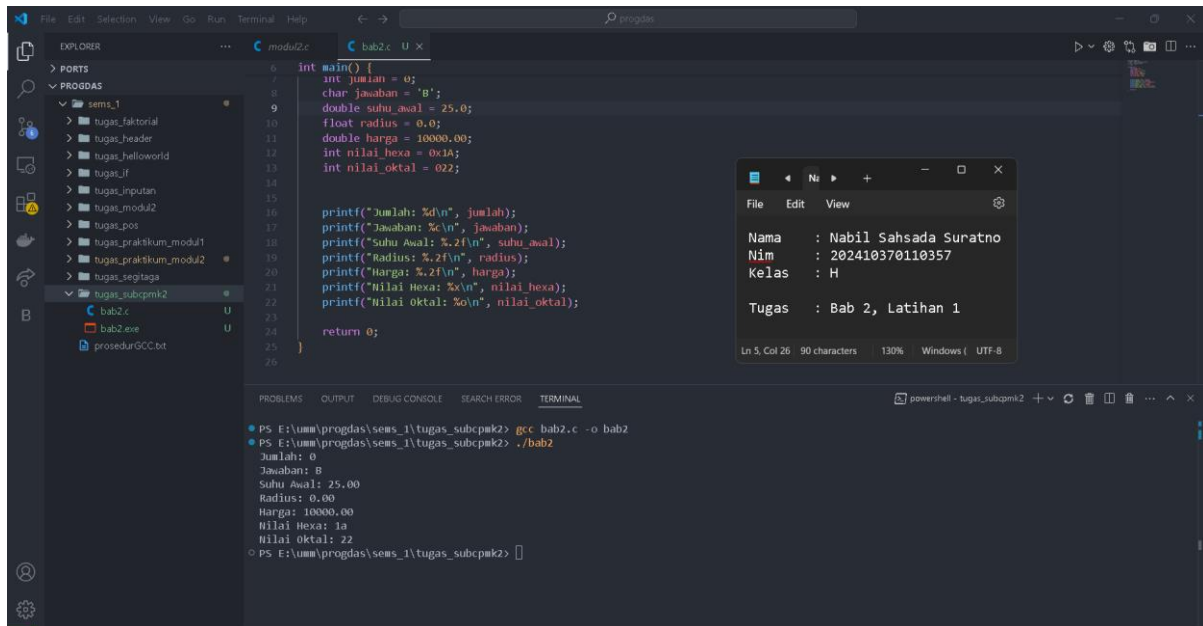


Nama : Nabil Sahsada Suratno

Nim : 202410370110357

Kelas : H

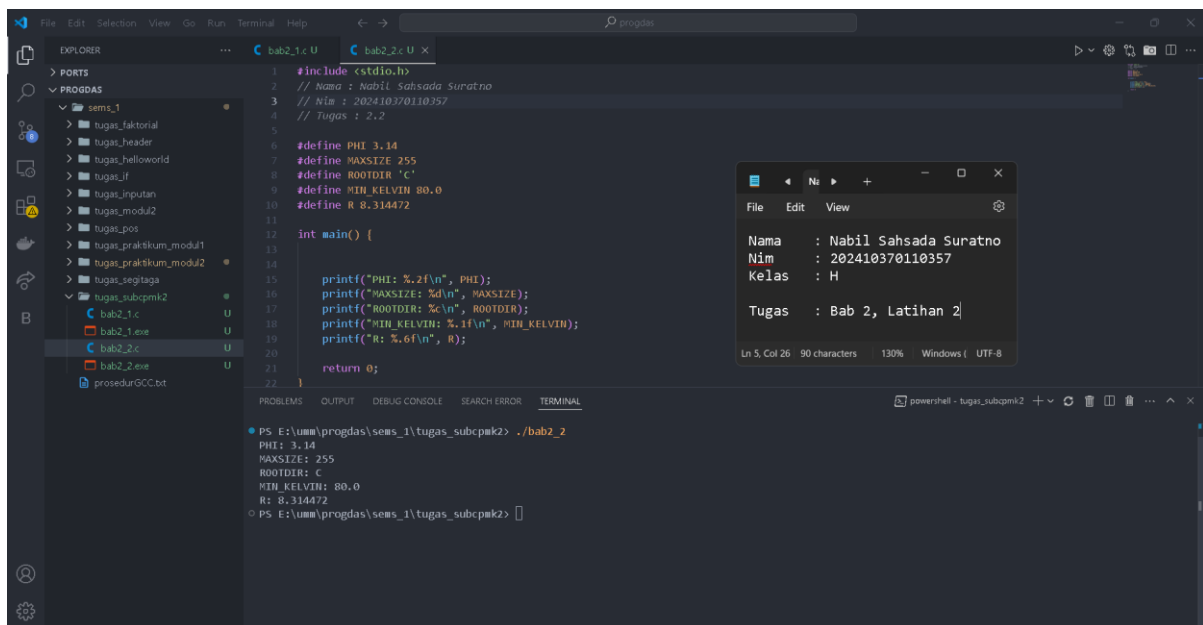
## Bab 2 Latihan 1



```
6 int main() {
7     int jumlah = 0;
8     char jawaban = 'B';
9     double suhu_awal = 25.0;
10    float radius = 0.0;
11    double harga = 10000.00;
12    int nilai_hexa = 0x1A;
13    int nilai_oktal = 022;
14
15
16    printf("Jumlah: %d\n", jumlah);
17    printf("Jawaban: %c\n", jawaban);
18    printf("Suhu Awal: %.2f\n", suhu_awal);
19    printf("Radius: %.2f\n", radius);
20    printf("Harga: %.2f\n", harga);
21    printf("Nilai Hexa: %x\n", nilai_hexa);
22    printf("Nilai Oktal: %o\n", nilai_oktal);
23
24    return 0;
25 }
```

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> gcc bab2.c -o bab2
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab2
Jumlah: 0
Jawaban: B
Suhu Awal: 25.00
Radius: 0.00
Harga: 10000.00
Nilai Hexa: 1a
Nilai Oktal: 22
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```

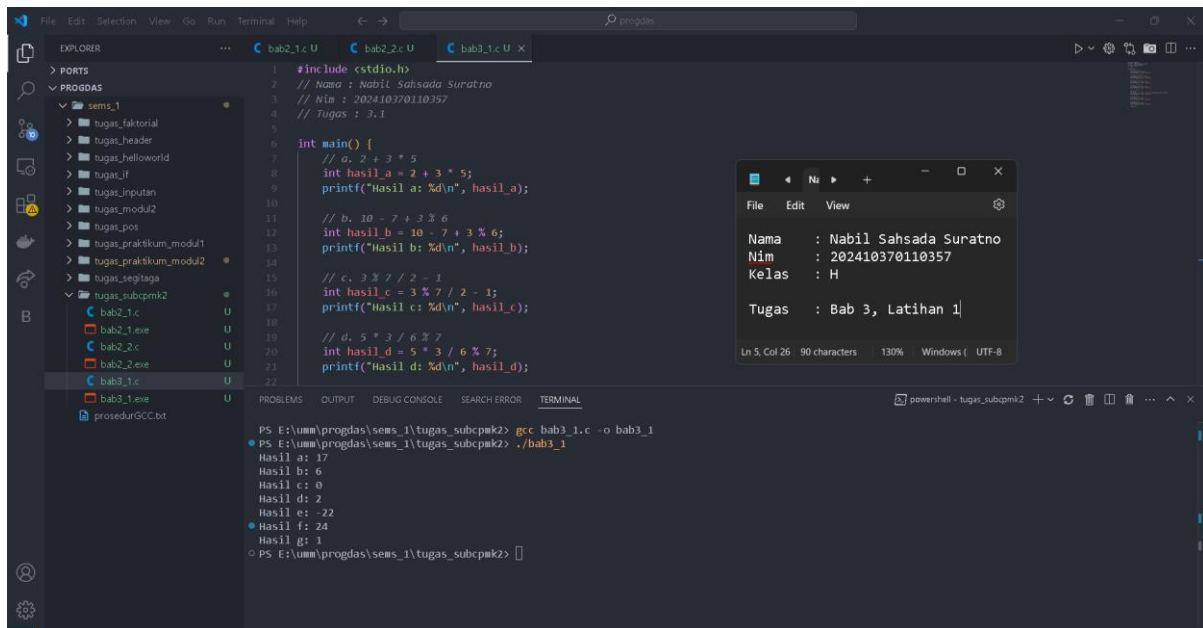
## Bab 2 Latihan 2



```
1 #include <stdio.h>
2 // Nama : Nabil Sahsada Suratno
3 // Nim : 202410370110357
4 // Tugas : 2.2
5
6 #define PHI 3.14
7 #define MAXSIZE 255
8 #define ROOTDIR 'c'
9 #define MIN_KELVIN 80.0
10 #define R 8.314472
11
12 int main() {
13
14    printf("PHI: %.2f\n", PHI);
15    printf("MAXSIZE: %d\n", MAXSIZE);
16    printf("ROOTDIR: %c\n", ROOTDIR);
17    printf("MIN_KELVIN: %.1f\n", MIN_KELVIN);
18    printf("R: %.6f\n", R);
19
20    return 0;
21 }
```

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab2_2
PHI: 3.14
MAXSIZE: 255
ROOTDIR: c
MIN_KELVIN: 80.0
R: 8.314472
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```

## Bab 3 Latihan 1

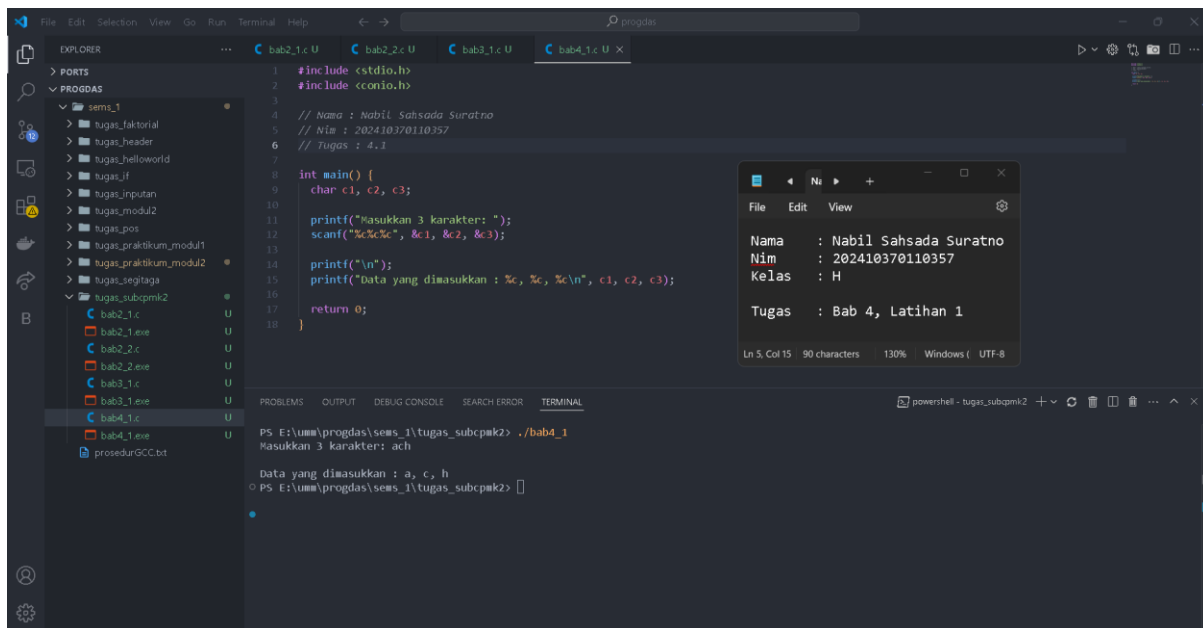


```
1 #include <stdio.h>
2 // Nama : Nabil Sahsada Suratno
3 // Nim : 202410370110357
4 // Tugas : 3.1
5
6 int main() {
7     // a. 2 + 3 * 5
8     int hasil_a = 2 + 3 * 5;
9     printf("Hasil a: %d\n", hasil_a);
10
11     // b. 10 - 7 + 3 * 6
12     int hasil_b = 10 - 7 + 3 * 6;
13     printf("Hasil b: %d\n", hasil_b);
14
15     // c. 3 * 7 / 2 - 1
16     int hasil_c = 3 * 7 / 2 - 1;
17     printf("Hasil c: %d\n", hasil_c);
18
19     // d. 5 * 3 / 6 * 7
20     int hasil_d = 5 * 3 / 6 * 7;
21     printf("Hasil d: %d\n", hasil_d);
22 }
```

Terminal Output:

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> gcc bab3_1.c -o bab3_1
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab3_1
Hasil a: 17
Hasil b: 6
Hasil c: 0
Hasil d: 2
Hasil e: -22
Hasil f: 24
Hasil g: 1
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```

## Bab 4 Latihan 1



```
1 #include <stdio.h>
2 #include <conio.h>
3
4 // Nama : Nabil Sahsada Suratno
5 // Nim : 202410370110357
6 // Tugas : 4.1
7
8 int main() {
9     char c1, c2, c3;
10     printf("Masukkan 3 karakter: ");
11     scanf("%c%c%c", &c1, &c2, &c3);
12     printf("\n");
13     printf("Data yang dimasukkan : %c, %c, %c\n", c1, c2, c3);
14     return 0;
15 }
```

Terminal Output:

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab4_1
Masukkan 3 karakter: ach
Data yang dimasukkan : a, c, h
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```

## Bab 4 Latihan 2

```
1 #include <stdio.h>
2 #include <conio.h>
3
4 // Nama : Nabil Sahsada Suratno
5 // Nim : 202410370110357
6 // Tugas : 4.2
7
8 int main() {
9     char kata[50];
10
11     printf("Masukkan sebuah kata: ");
12     scanf("%s", kata);
13
14     printf("\n");
15     printf("kata yang dimasukkan: %s\n", kata);
16
17     return 0;
18 }
```

PS E:\umma\progdas\sems\_1\tugas\_subcpmk2> ./bab4\_2  
Masukkan sebuah kata: ach  
kata yang dimasukkan: ach  
PS E:\umma\progdas\sems\_1\tugas\_subcpmk2>

## Bab 4 Latihan 3

```
1 #include <stdio.h>
2 #include <conio.h>
3
4 // Nama : Nabil Sahsada Suratno
5 // Nim : 202410370110357
6 // Tugas : 4.3
7
8 int main() {
9     int angka;
10
11     printf("Masukkan angka desimal: ");
12     scanf("%d", &angka);
13     printf("Nilai yang dimasukkan: %d\n", angka);
14
15     printf("Masukkan angka oktal: ");
16     scanf("%o", &angka);
17     printf("Nilai yang dimasukkan: %o (desimal : %d)\n", angka, angka);
18
19     printf("Masukkan angka heksadesimal: ");
20     scanf("%x", &angka);
21     printf("Nilai yang dimasukkan: %x (desimal : %d)\n", angka, angka);
22 }
```

PS E:\umma\progdas\sems\_1\tugas\_subcpmk2> ./bab4\_3  
Masukkan angka desimal: 22  
Nilai yang dimasukkan: 22  
Masukkan angka oktal: 22  
Nilai yang dimasukkan: 22 (desimal : 18)  
Masukkan angka heksadesimal: 22  
Nilai yang dimasukkan: 22 (desimal : 34)  
PS E:\umma\progdas\sems\_1\tugas\_subcpmk2>

## Bab 4 Latihan 4

```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 4.4

int main() {
    float f;
    int i;

    printf("Masukkan nilai numerik pecahan dan integer: ");
    scanf("%f %i", &f, &i);

    printf("Nilai pecahan: %.2f\n", f);
    printf("Nilai integer: %i\n", i);

    return 0;
}
```

Terminal Output:

```
PS E:\umma\progdas\sems_1\tugas_subcpmk2> gcc bab4_4.c -o bab4_4
PS E:\umma\progdas\sems_1\tugas_subcpmk2> ./bab4_4
Masukkan nilai numerik pecahan dan integer:
2.2
4
Nilai pecahan: 2.20
Nilai integer: 4
PS E:\umma\progdas\sems_1\tugas_subcpmk2>
```

## Bab 5 Latihan 1

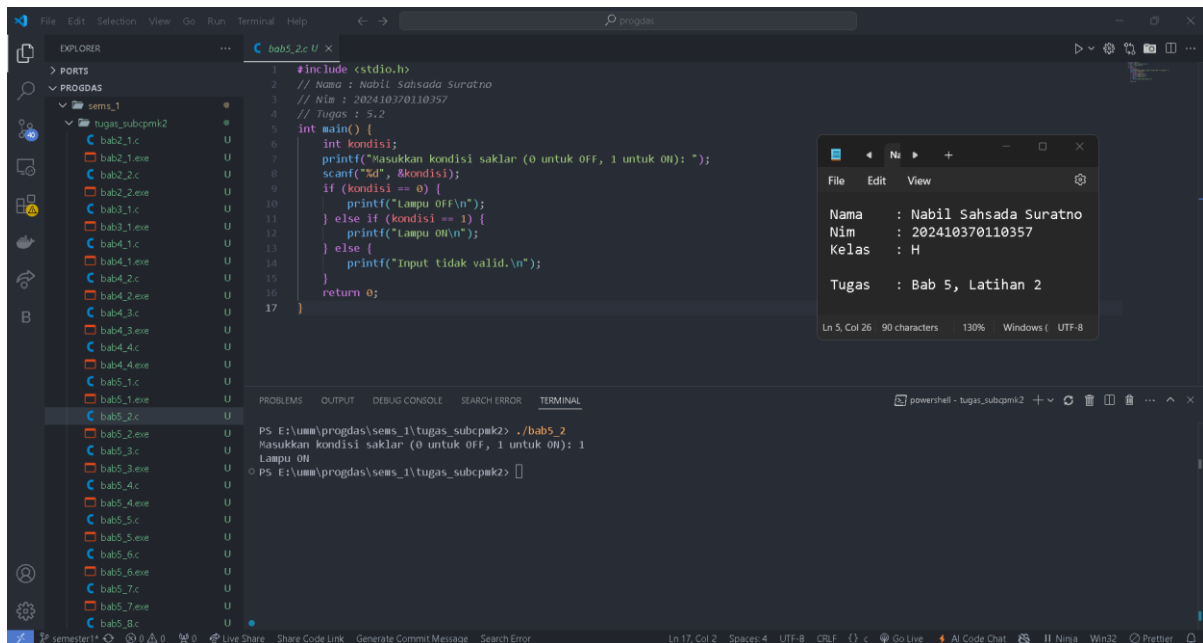
```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.1

int main() {
    int a, b;
    printf("Masukkan angka pertama: ");
    scanf("%d", &a);
    printf("Masukkan angka kedua: ");
    scanf("%d", &b);
    if (a > b) {
        printf("Bilangan terbesar adalah: %d\n", a);
    } else {
        printf("Bilangan terbesar adalah: %d\n", b);
    }
    return 0;
}
```

Terminal Output:

```
PS E:\umma\progdas\sems_1\tugas_subcpmk2> ./bab5_1
Masukkan angka pertama: 1
Masukkan angka kedua: 2
Bilangan terbesar adalah: 2
PS E:\umma\progdas\sems_1\tugas_subcpmk2>
```

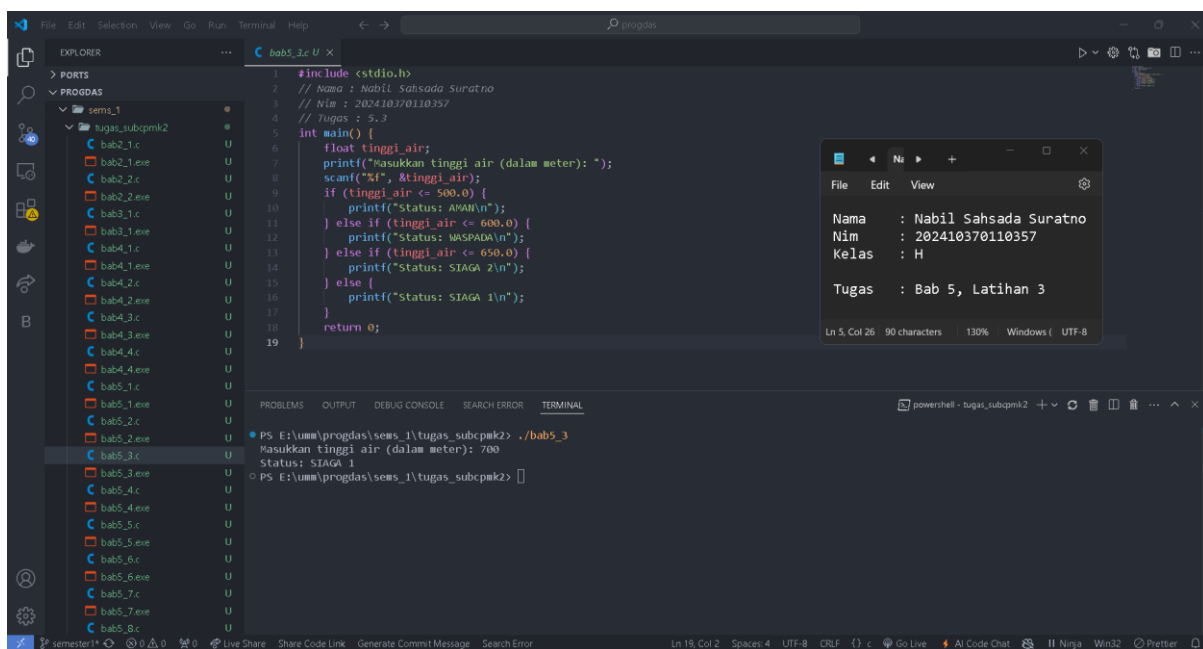
## Bab 5 Latihan 2



```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.2
int main() {
    int kondisi;
    printf("Masukkan kondisi saklar (0 untuk OFF, 1 untuk ON): ");
    scanf("%d", &kondisi);
    if (kondisi == 0) {
        printf("Lampu OFF\n");
    } else if (kondisi == 1) {
        printf("Lampu ON\n");
    } else {
        printf("Input tidak valid.\n");
    }
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_2  
Masukkan kondisi saklar (0 untuk OFF, 1 untuk ON): 1  
Lampu ON

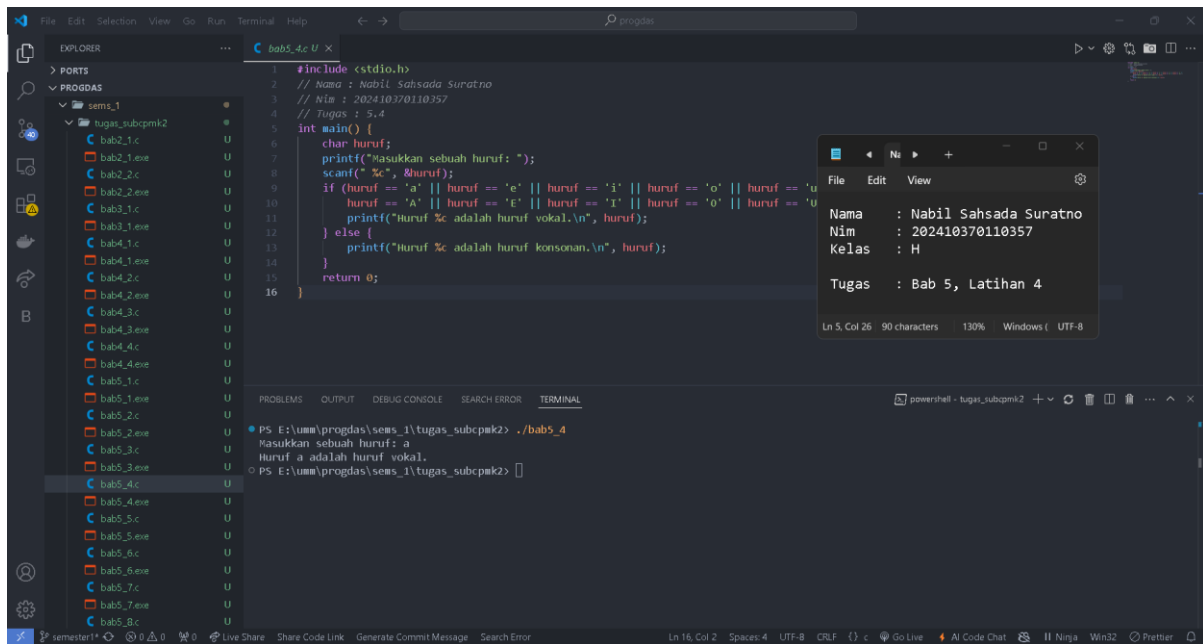
## Bab 5 Latihan 3



```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.3
int main() {
    float tinggi_air;
    printf("Masukkan tinggi air (dalam meter): ");
    scanf("%f", &tinggi_air);
    if (tinggi_air <= 500.0) {
        printf("Status: AMAN\n");
    } else if (tinggi_air <= 600.0) {
        printf("Status: WASPADA\n");
    } else if (tinggi_air <= 650.0) {
        printf("Status: SIAGA 2\n");
    } else {
        printf("Status: SIAGA 1\n");
    }
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_3  
Masukkan tinggi air (dalam meter): 700  
Status: SIAGA 1

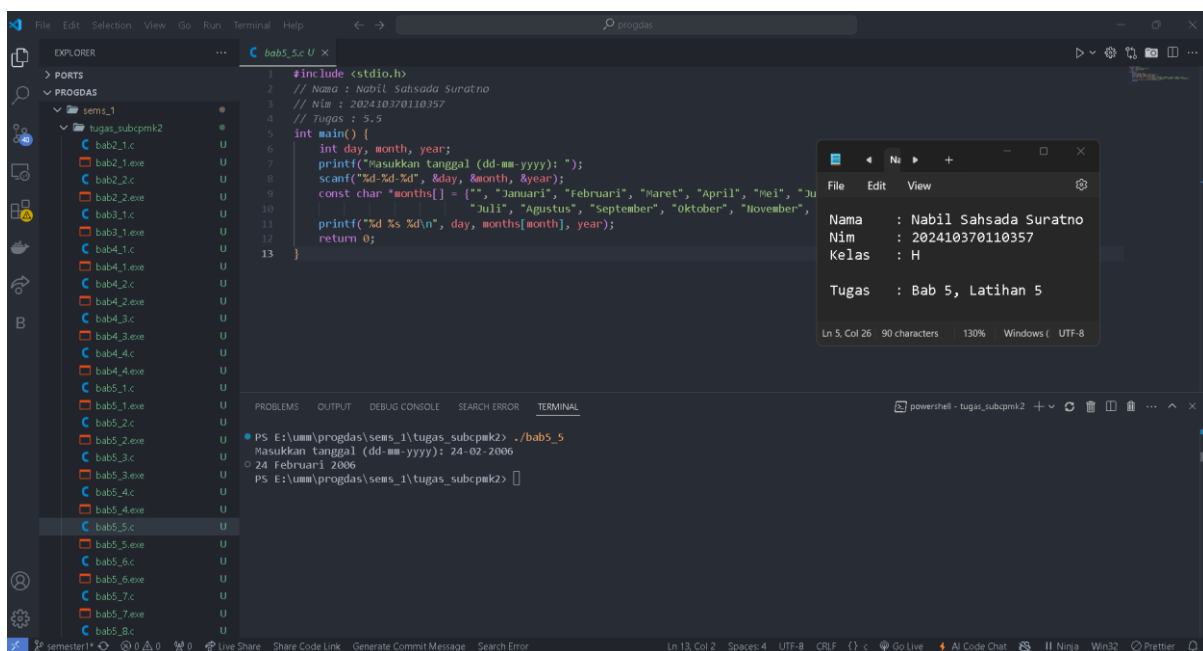
## Bab 5 Latihan 4



```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.4
int main() {
    char huruf;
    printf("Masukkan sebuah huruf: ");
    scanf("%c", &huruf);
    if (huruf == 'a' || huruf == 'e' || huruf == 'i' || huruf == 'o' || huruf == 'u' ||
        huruf == 'A' || huruf == 'E' || huruf == 'I' || huruf == 'O' || huruf == 'U')
        printf("Huruf %c adalah huruf vokal.\n", huruf);
    else {
        printf("Huruf %c adalah huruf konsonan.\n", huruf);
    }
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_4  
Masukkan sebuah huruf: a  
Huruf a adalah huruf vokal.  
PS E:\umm\progdas\sems\_1\tugas\_subcpmk2>

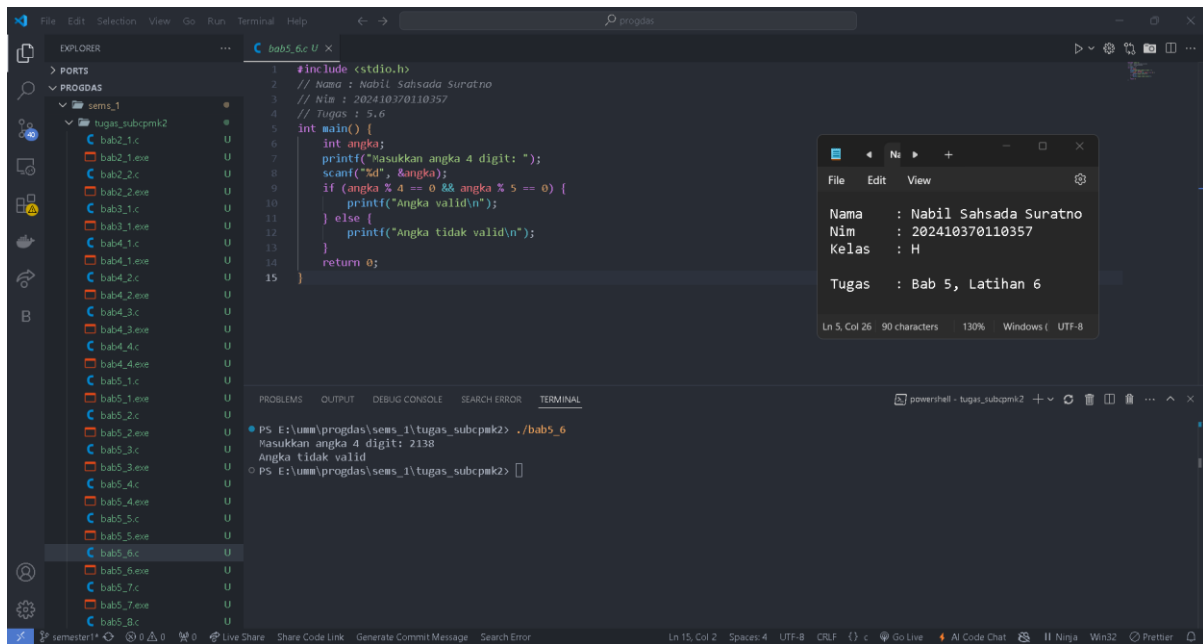
## Bab Latihan 5



```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.5
int main() {
    int day, month, year;
    printf("Masukkan tanggal (dd-mm-yyyy): ");
    scanf("%d-%d-%d", &day, &month, &year);
    const char *months[] = {"", "Januari", "Februari", "Maret", "April", "Mei", "Juni", "Juli", "Agustus", "September", "Oktober", "November", "Desember"};
    printf("%d %s %d\n", day, months[month], year);
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_5  
Masukkan tanggal (dd-mm-yyyy): 24-02-2006  
24 Februari 2006  
PS E:\umm\progdas\sems\_1\tugas\_subcpmk2>

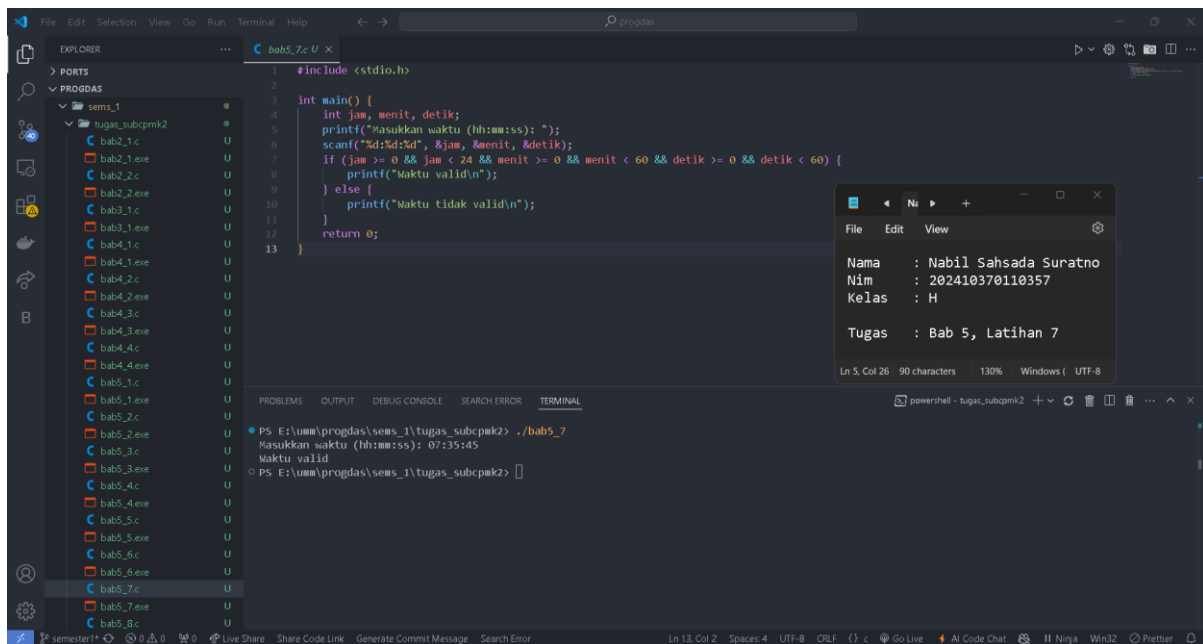
## Bab Latihan 6



```
#include <stdio.h>
// Nama : Nabil Sahsada Suratno
// Nim : 202410370110357
// Tugas : 5.6
int main() {
    int angka;
    printf("Masukkan angka 4 digit: ");
    scanf("%d", &angka);
    if (angka % 4 == 0 && angka % 5 == 0) {
        printf("Angka valid\n");
    } else {
        printf("Angka tidak valid\n");
    }
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_6  
Masukkan angka 4 digit: 2138  
Angka tidak valid  
PS E:\umm\progdas\sems\_1\tugas\_subcpmk2>

## Bab 5 Latihan 7



```
#include <stdio.h>
int main() {
    int jam, menit, detik;
    printf("Masukkan waktu (hh:mm:ss): ");
    scanf("%d:%d:%d", &jam, &menit, &detik);
    if (jam >= 0 && jam < 24 && menit >= 0 && menit < 60 && detik >= 0 && detik < 60) {
        printf("waktu valid\n");
    } else {
        printf("waktu tidak valid\n");
    }
    return 0;
}
```

PS E:\umm\progdas\sems\_1\tugas\_subcpmk2> ./bab5\_7  
Masukkan waktu (hh:mm:ss): 07:35:45  
Waktu valid  
PS E:\umm\progdas\sems\_1\tugas\_subcpmk2>

## Bab Latihan 8

The screenshot shows a Visual Studio Code editor with a C program named `bab5_8.c`. The program calculates the total price of three items and applies a 10% discount if the total is greater than 100,000. The terminal shows the execution of the program with input values 1000, 2000, and 3000, resulting in a total price of 6000.00.

```
#include <stdio.h>

int main() {
    float harga1, harga2, harga3, total;
    printf("Masukkan harga barang 1: ");
    scanf("%f", &harga1);
    printf("Masukkan harga barang 2: ");
    scanf("%f", &harga2);
    printf("Masukkan harga barang 3: ");
    scanf("%f", &harga3);
    total = harga1 + harga2 + harga3;
    if (total > 100000) {
        total *= 0.9;
    }
    printf("Total harga yang harus dibayar: %.2f\n", total);
    return 0;
}
```

Terminal output:

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab5_8
Masukkan harga barang 1: 1000
Masukkan harga barang 2: 2000
Masukkan harga barang 3: 3000
Total harga yang harus dibayar: 6000.00
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```

## Bab 5 Latihan 9

The screenshot shows a Visual Studio Code editor with a C program named `bab5_9.c`. The program checks if a string is a palindrome by comparing it with its reverse. The terminal shows the execution of the program with input values "abcd" and "adcs", resulting in "Proses berhasil." and "Masukkan kode lagi." respectively.

```
#include <stdio.h>
#include <string.h>

int main() {
    char kode[5];
    printf("Masukkan kode 4 karakter: ");
    scanf("%4s", kode);
    if (strcmp(kode, "abcd") == 0) {
        printf("Proses berhasil.\n");
    } else {
        printf("Masukkan kode lagi.\n");
    }
    return 0;
}
```

Terminal output:

```
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab5_9
Masukkan kode 4 karakter: abcd
Proses berhasil.
PS E:\umm\progdas\sems_1\tugas_subcpmk2> ./bab5_9
Masukkan kode 4 karakter: adcs
Masukkan kode lagi.
PS E:\umm\progdas\sems_1\tugas_subcpmk2>
```



## Bab 5 Latihan 10

The screenshot shows the Visual Studio Code interface with a C program named `bab5_10.c` open. The program includes `<stdio.h>` and defines a `main` function that prompts the user to enter two characters. It then checks if the first character is 'a' and the second is 'b', or if the first is 'b' and the second is 'a'. If the condition is met, it prints "Silahkan masuk.\n"; otherwise, it prints "Identifikasi gagal.\n" and returns 0.

```
1 #include <stdio.h>
2
3 int main() {
4     char karakter1, karakter2;
5     printf("Masukkan 2 karakter: ");
6     scanf("%c %c", &karakter1, &karakter2);
7     if ((karakter1 == 'a' && karakter2 == 'b') || (karakter1 == 'b' && karakter2 == 'a')) {
8         printf("Silahkan masuk.\n");
9     } else {
10        printf("Identifikasi gagal.\n");
11    }
12    return 0;
13 }
```

The Explorer sidebar shows a project structure with a folder `sems_1` containing a subfolder `tugas_subcpmk2` with various `bab` files. The Terminal shows the execution of `./bab5_10` with input `ab`, resulting in the output `Silahkan masuk.`

A small window titled "File Edit View" displays the following information:

```
Nama : Nabil Sahsada Suratno
Nim : 202410370110357
Kelas : H
Tugas : Bab 5, Latihan 10
```

## Bab 5 Latihan 11

The screenshot shows the Visual Studio Code interface with a C program named `bab5_11.c` open. The program includes `<stdio.h>` and `<string.h>`. It defines a `main` function that prompts the user to enter two strings, `kode1` and `kode2`. It then compares the two strings using `strcmp`. If they are equal, it prints "Karakter dikenali.\n"; otherwise, it prints "Karakter tidak dikenali.\n" and returns 0.

```
1 #include <stdio.h>
2 #include <string.h>
3
4 int main() {
5     char kode1[4], kode2[4];
6     printf("Masukkan kode 1: ");
7     scanf("%3s", kode1);
8     printf("Masukkan kode 2: ");
9     scanf("%3s", kode2);
10    if (strcmp(kode1, kode2) == 0) {
11        printf("Karakter dikenali.\n");
12    } else {
13        printf("Karakter tidak dikenali.\n");
14    }
15    return 0;
16 }
```

The Explorer sidebar shows a project structure with a folder `sems_1` containing a subfolder `tugas_subcpmk2` with various `bab` files. The Terminal shows the execution of `./bab5_11` with input `a a`, resulting in the output `Karakter dikenali.`

A small window titled "File Edit View" displays the following information:

```
Nama : Nabil Sahsada Suratno
Nim : 202410370110357
Kelas : H
Tugas : Bab 5, Latihan 11
```