

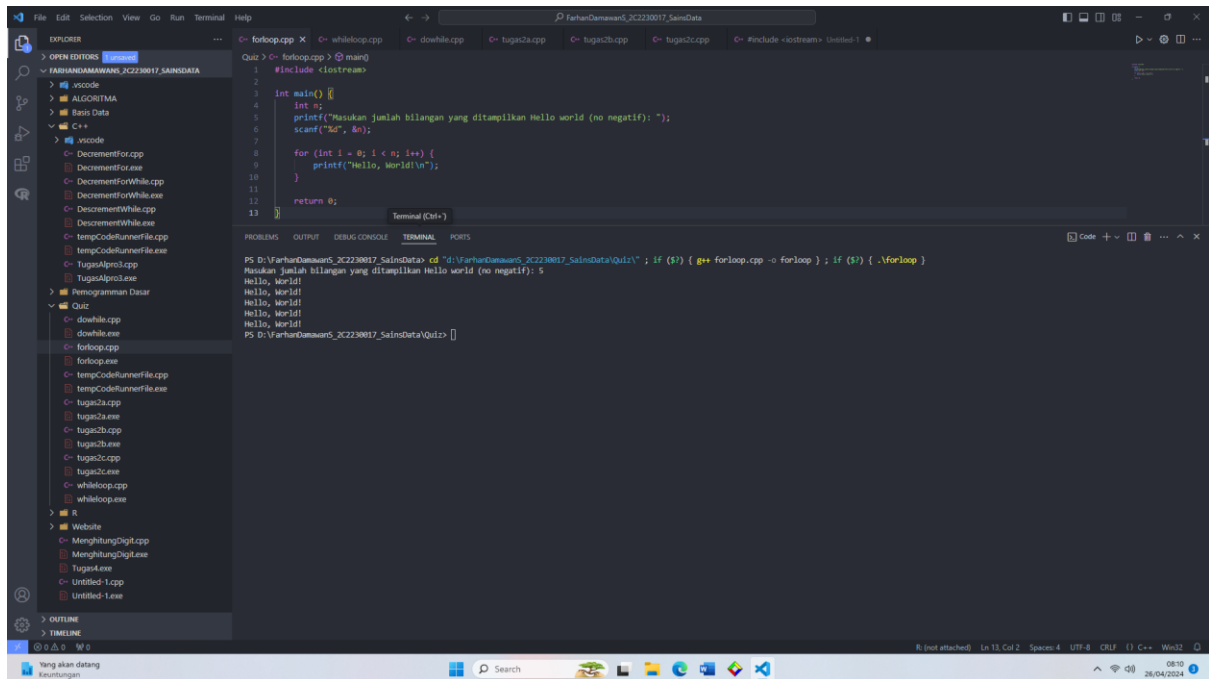
Nama : Farhan Darmawan S

NRP: 2C2230017

QUIZ : Pemogramman Dasar

NO.1

For-Loop :

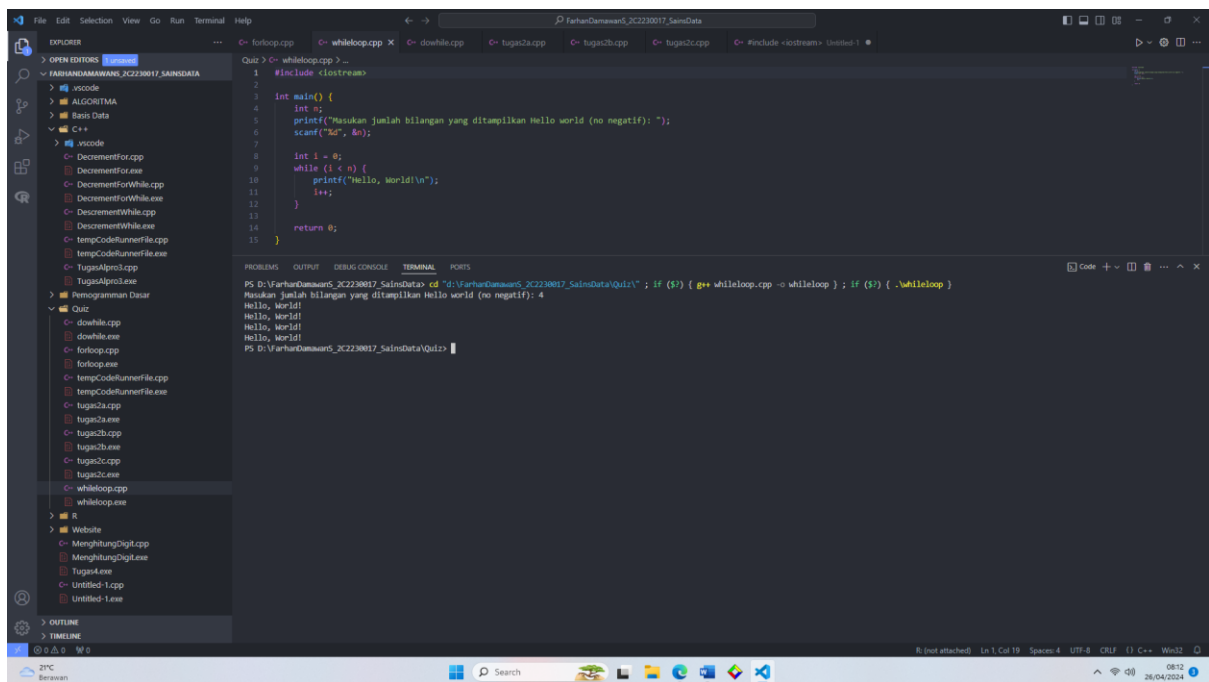


```
File Edit Selection View Go Run Terminal Help
forloop.cpp x  C:\whileloop.cpp  C:\dowhile.cpp  C:\tugas2a.cpp  C:\tugas2b.cpp  C:\tugas2c.cpp  C:\include <iostream> Untitled1
EXPLORER
> OPEN EDITORS
> FARHANDARMAWAN_2C2230017_SAINSDATA
  > vscode
  > ALGORITMA
  > Basis Data
  > C++
    > vscode
    > DecrementFor.cpp
    > DecrementFor.exe
    > DecrementForWhile.cpp
    > DecrementForWhile.exe
    > DecrementWhile.cpp
    > DecrementWhile.exe
    > tempCodeRunnerFile.cpp
    > tempCodeRunnerFile.exe
    > TugasApri3.cpp
    > TugasApri3.exe
  > Pemogramman Dasar
  > Quiz
    > dowhile.cpp
    > dowhile.exe
    > forloop.cpp
    > forloop.exe
    > tempCodeRunnerFile.cpp
    > tempCodeRunnerFile.exe
    > tugas2a.cpp
    > tugas2a.exe
    > tugas2b.cpp
    > tugas2b.exe
    > tugas2c.cpp
    > tugas2c.exe
    > whileloop.cpp
    > whileloop.exe
  > R
  > Website
    > MenghitungDigit.cpp
    > MenghitungDigit.exe
    > Tugas4.exe
    > Untitled-1.cpp
    > Untitled-1.exe
  > OUTLINE
  > TIMELINE
  > 0 0 0 W 0
  > Yang akan datang
  > keuntungan

Quiz > C:\forloop.cpp > main()
1 #include <iostream>
2
3 int main() {
4     int n;
5     printf("Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): ");
6     scanf("%d", &n);
7
8     for (int i = 0; i < n; i++) {
9         printf("Hello, World!\n");
10    }
11
12    return 0;
13 }

Terminal (C++)
PS D:\Farhandarmawan_2C2230017_SainData> cd "d:\Farhandarmawan_2C2230017_SainData\Quiz\" ; if ($?) { g++ forloop.cpp -o forloop } ; if ($?) { .\forloop }
Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): 5
Hello, World!
Hello, World!
Hello, World!
Hello, World!
Hello, World!
PS D:\Farhandarmawan_2C2230017_SainData\Quiz>
```

While-Loop :

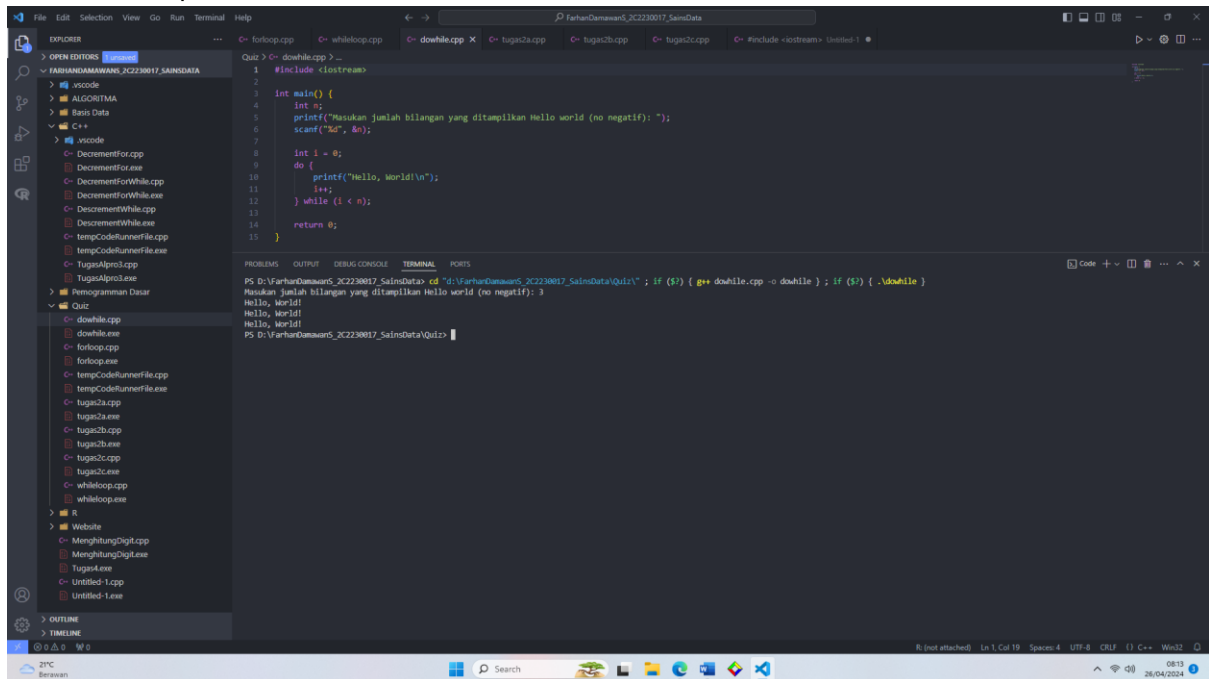


```
File Edit Selection View Go Run Terminal Help
whileloop.cpp x  C:\whileloop.cpp  C:\dowhile.cpp  C:\tugas2a.cpp  C:\tugas2b.cpp  C:\tugas2c.cpp  C:\include <iostream> Untitled1
EXPLORER
> OPEN EDITORS
> FARHANDARMAWAN_2C2230017_SAINSDATA
  > vscode
  > ALGORITMA
  > Basis Data
  > C++
    > vscode
    > DecrementFor.cpp
    > DecrementFor.exe
    > DecrementForWhile.cpp
    > DecrementForWhile.exe
    > DecrementWhile.cpp
    > DecrementWhile.exe
    > tempCodeRunnerFile.cpp
    > tempCodeRunnerFile.exe
    > TugasApri3.cpp
    > TugasApri3.exe
  > Pemogramman Dasar
  > Quiz
    > dowhile.cpp
    > dowhile.exe
    > forloop.cpp
    > forloop.exe
    > tempCodeRunnerFile.cpp
    > tempCodeRunnerFile.exe
    > tugas2a.cpp
    > tugas2a.exe
    > tugas2b.cpp
    > tugas2b.exe
    > tugas2c.cpp
    > tugas2c.exe
    > whileloop.cpp
    > whileloop.exe
  > R
  > Website
    > MenghitungDigit.cpp
    > MenghitungDigit.exe
    > Tugas4.exe
    > Untitled-1.cpp
    > Untitled-1.exe
  > OUTLINE
  > TIMELINE
  > 0 0 0 W 0
  > Yang akan datang
  > keuntungan

Quiz > C:\whileloop.cpp > _
1 #include <iostream>
2
3 int main() {
4     int n;
5     printf("Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): ");
6     scanf("%d", &n);
7
8     while (i < n) {
9         printf("Hello, World!\n");
10        i++;
11    }
12
13    return 0;
14 }
15 }

Terminal (C++)
PS D:\Farhandarmawan_2C2230017_SainData> cd "d:\Farhandarmawan_2C2230017_SainData\Quiz\" ; if ($?) { g++ whileloop.cpp -o whileloop } ; if ($?) { .\whileloop }
Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): 4
Hello, World!
Hello, World!
Hello, World!
Hello, World!
PS D:\Farhandarmawan_2C2230017_SainData\Quiz>
```

Do While-Loop :



The screenshot shows the Visual Studio Code interface with a C++ file named `doWhile.cpp` open. The code implements a do-while loop that prints "Hello, World!" and increments a counter `i` until it reaches 3. The terminal output shows the program's execution.

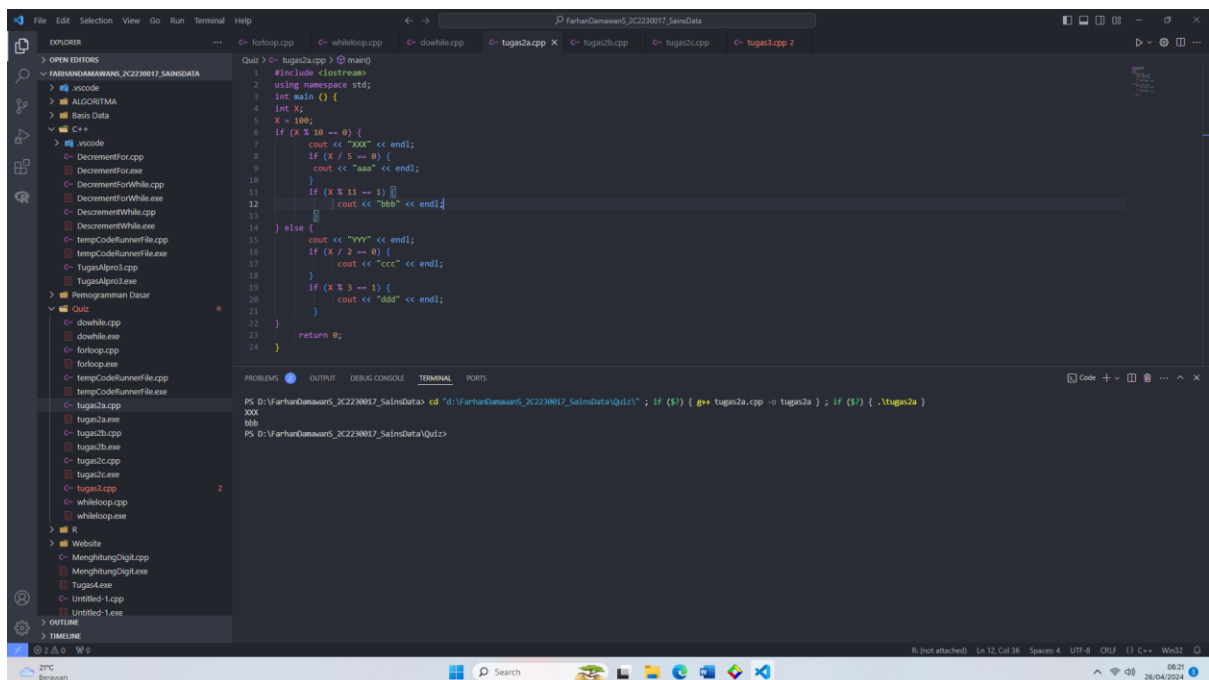
```
1 #include <iostream>
2
3 int main() {
4     int i;
5     printf("Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): ");
6     scanf("%d", &i);
7
8     int i = 0;
9     do {
10        printf("Hello, World!\n");
11        i++;
12    } while (i < 3);
13
14    return 0;
15 }
```

Terminal Output:

```
PS D:\FarhanDamar5_JC2230017_SainData> cd "D:\FarhanDamar5_JC2230017_SainData\Quiz\"; if ($?) { g++ doWhile.cpp -o doWhile }; if ($?) { .doWhile }
Masukan jumlah bilangan yang ditampilkan Hello world (no negatif): 3
Hello, World!
Hello, World!
Hello, World!
PS D:\FarhanDamar5_JC2230017_SainData\Quiz>
```

NO.2

2A :



The screenshot shows the Visual Studio Code interface with a C++ file named `tugas2a.cpp` open. The code implements a menu-driven calculator using a do-while loop. The terminal output shows the program's execution.

```
1 #include <iostream>
2 using namespace std;
3 int main () {
4     int x;
5     x = 100;
6     if (x % 10 == 0) {
7         cout << "xxx" << endl;
8         if (x / 5 == 0) {
9             cout << "aaa" << endl;
10        }
11        if (x % 11 == 1) {
12            cout << "bbb" << endl;
13        }
14    } else {
15        cout << "yyy" << endl;
16        if (x / 2 == 0) {
17            cout << "ccc" << endl;
18        }
19        if (x % 3 == 1) {
20            cout << "ddd" << endl;
21        }
22    }
23    return 0;
24 }
```

Terminal Output:

```
PS D:\FarhanDamar5_JC2230017_SainData> cd "D:\FarhanDamar5_JC2230017_SainData\Quiz\"; if ($?) { g++ tugas2a.cpp -o tugas2a }; if ($?) { .tugas2a }
xxx
bbb
PS D:\FarhanDamar5_JC2230017_SainData\Quiz>
```

2B:

The screenshot shows the VS Code editor with a C++ file named `tugas2b.cpp` open. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3 int main() {
4     const int genap = 2;
5     int i;
6     int found;
7     int TabInt[10];
8     for(i = 0; i < 10; i++)
9     {
10         TabInt[i] = 1 * genap;
11     }
12     i = 10; found = 0;
13     while ((i > 0) && (!found)) {
14         if (TabInt[i] % 2 == 0)
15             found = 1;
16     }
17     i = i - 1;
18 }
19 if (found)
20     cout << "Terdapat" << endl;
21 else
22     cout << "Tidak ditemukan" << endl;
23 return 0; }
```

The terminal shows the command to compile and run the program:

```
PS D:\FarhanDamarW5_JC2230017_SainData> cd "d:\FarhanDamarW5_JC2230017_SainData\Quiz"; if ($?) { g++ tugas2b.cpp -o tugas2b }; if ($?) { .\tugas2b }
PS D:\FarhanDamarW5_JC2230017_SainData\Quiz>
```

2C:

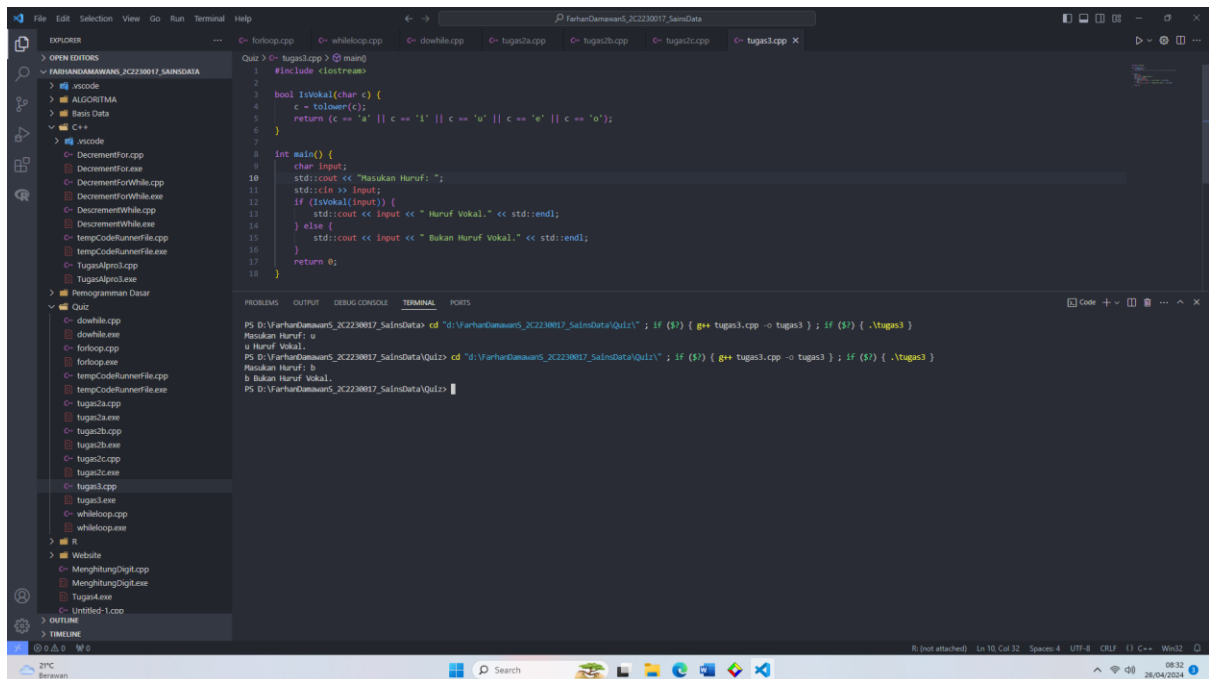
The screenshot shows the VS Code editor with a C++ file named `tugas2c.cpp` open. The code is as follows:

```
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     string letters[2][4] = {
6         { "A", "B", "C", "D" },
7         { "E", "F", "G", "H" }
8     };
9     cout << letters[0][2];
10     return 0;
11 }
```

The terminal shows the command to compile and run the program:

```
PS D:\FarhanDamarW5_JC2230017_SainData> cd "d:\FarhanDamarW5_JC2230017_SainData\Quiz"; if ($?) { g++ tugas2c.cpp -o tugas2c }; if ($?) { .\tugas2c }
PS D:\FarhanDamarW5_JC2230017_SainData\Quiz>
```

NO.3



```
#include <iostream>
using namespace std;

bool isVokal(char c) {
    c = tolower(c);
    return (c == 'a' || c == 'i' || c == 'u' || c == 'e' || c == 'o');
}

int main() {
    char input;
    std::cout << "Masukan Huruf: ";
    std::cin >> input;
    if (isVokal(input)) {
        std::cout << input << " Huruf Vokal." << std::endl;
    } else {
        std::cout << input << " Bukan Huruf Vokal." << std::endl;
    }
    return 0;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\FarhanDamarw5_JC2230017_SainData> cd "d:\FarhanDamarw5_JC2230017_SainData\Quiz\" ; if ($?) { g++ tugas3.cpp -o tugas3 } ; if ($?) { .\tugas3 }
Masukan Huruf: a
Huruf Vokal.
PS D:\FarhanDamarw5_JC2230017_SainData\Quiz> cd "d:\FarhanDamarw5_JC2230017_SainData\Quiz\" ; if ($?) { g++ tugas3.cpp -o tugas3 } ; if ($?) { .\tugas3 }
Masukan Huruf: b
Bukan Huruf Vokal.
PS D:\FarhanDamarw5_JC2230017_SainData\Quiz>
```

NO.4

- String cars [4] = {"Volvo", "BMW", "Ford", "Mazda"};
- string food = "pizza";
string* ptr = &food;