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## QUIZ 1 PEMROGRAMAN DASAR

### Nomor 1

#### Foor Loop

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

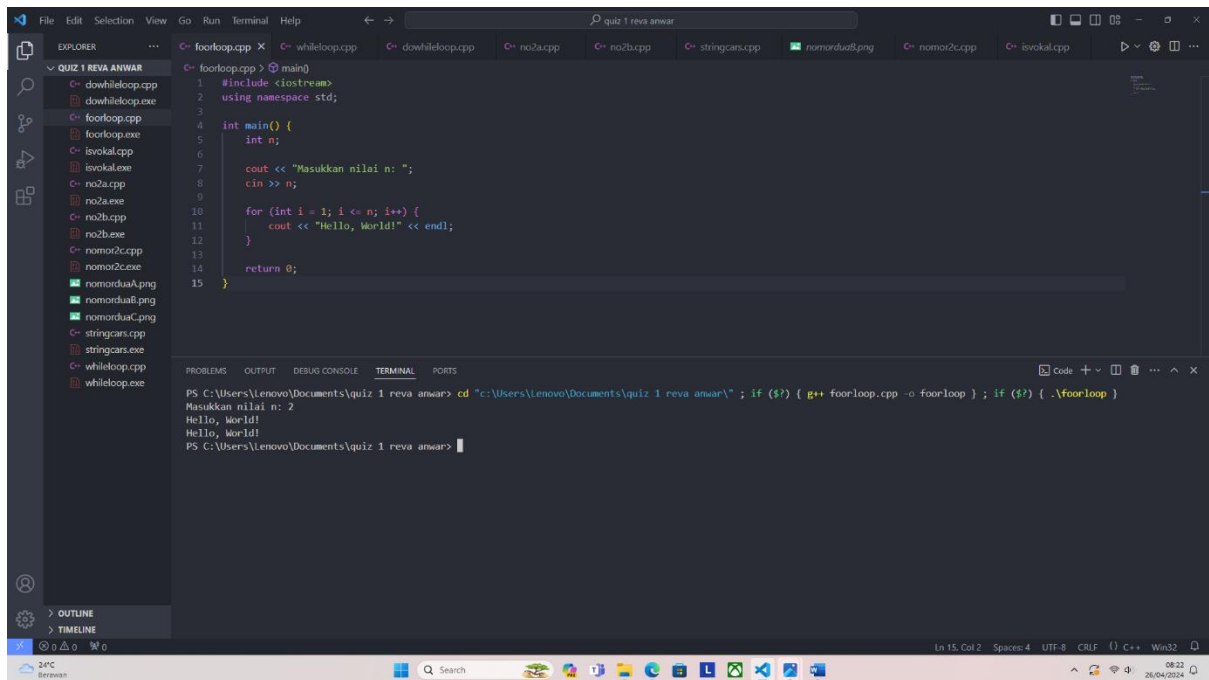
int main() {
    int n;

    cout << "Masukkan nilai n: ";
    cin >> n;

    for (int i = 1; i <= n; i++) {
        cout << "Hello, World!" << endl;
    }

    return 0;
}
```

Capture:



```
File Edit Selection View Go Run Terminal Help
quiz 1 reva anwar
EXPLORER
  C++ QUIZ 1 REVA ANWAR
    C++ dowhileloop.cpp
    C++ dowhileloop.exe
    C++ foorloop.cpp
    C++ foorloop.exe
    C++ isvokal.cpp
    C++ isvokal.exe
    C++ no2a.cpp
    C++ no2a.exe
    C++ no2b.cpp
    C++ no2b.exe
    C++ nomor2c.cpp
    C++ nomor2c.exe
    C++ nomorduaA.png
    C++ nomorduaB.png
    C++ nomorduaC.png
    C++ stringcars.cpp
    C++ stringcars.exe
    C++ whileloop.cpp
    C++ whileloop.exe
  C++ foorloop.cpp X
    1 #include <iostream>
    2 using namespace std;
    3
    4 int main() {
    5     int n;
    6
    7     cout << "Masukkan nilai n: ";
    8     cin >> n;
    9
    10    for (int i = 1; i <= n; i++) {
    11        cout << "Hello, World!" << endl;
    12    }
    13
    14    return 0;
    15 }
  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
  PS C:\Users\Lenovo\Documents\quiz 1 reva anwar> cd "c:\Users\Lenovo\Documents\quiz 1 reva anwar\" ; if ($?) { g++ foorloop.cpp -o foorloop } ; if ($?) { .\foorloop }
  Masukkan nilai n: 2
  Hello, World!
  Hello, World!
  PS C:\Users\Lenovo\Documents\quiz 1 reva anwar>
```

## While Loop

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

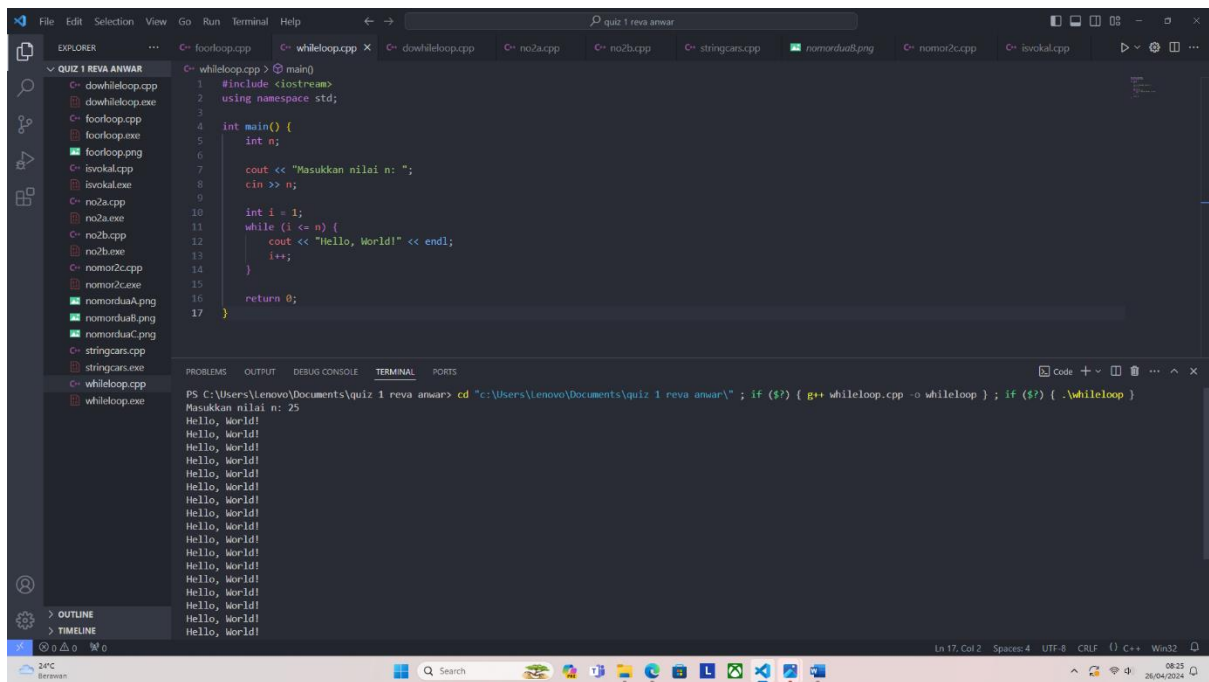
int main() {
    int n;

    cout << "Masukkan nilai n: ";
    cin >> n;

    int i = 1;
    while (i <= n) {
        cout << "Hello, World!" << endl;
        i++;
    }

    return 0;
}
```

Capture:



The screenshot shows a C++ IDE with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays the same C++ code as the previous block. The terminal shows the output of the program, which is a series of "Hello, World!" messages. The command prompt in the terminal shows the user running the program with the command `cd "C:\Users\Lenovo\Documents\quiz 1 reva anwar" & if ($?) { g++ whileloop.cpp -o whileloop }; if ($?) { .\whileloop }`. The output of the program is a series of "Hello, World!" messages, one for each iteration of the loop.

## Do While Loop

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

int main() {
    int n;
```

```

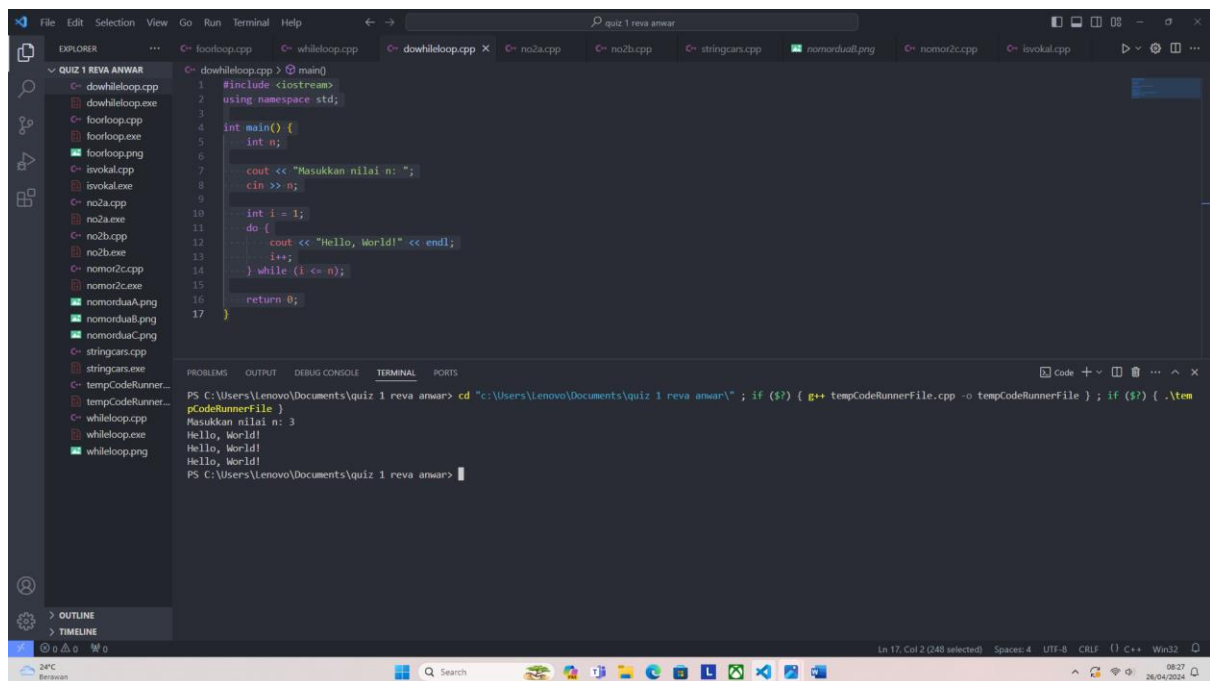
cout << "Masukkan nilai n: ";
cin >> n;

int i = 1;
do {
    cout << "Hello, World!" << endl;
    i++;
} while (i <= n);

return 0;
}

```

*Capture:*



Nomor 2

Output 2a

The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a project named 'QUIZ 1 REVA ANWAR'. The file explorer lists several files: 'dowhileloop.cpp', 'dowhileloop.exe', 'foorloop.cpp', 'foorloop.exe', 'no2a.cpp', 'no2a.exe', 'whileloop.cpp', and 'whileloop.exe'. The main editor window shows the content of 'no2a.cpp', which contains the following C++ code:

```
PS C:\Users\Lenovo\Documents\quiz 1 reva anwar> cd "c:\Users\Lenovo\Documents\quiz 1 reva anwar\" ; if ($?) { g++ no2a.cpp -o no2a } ; if ($?) { .\no2a }  
xxx  
bbb  
PS C:\Users\Lenovo\Documents\quiz 1 reva anwar>
```

The terminal output shows the command being executed and the resulting output 'xxx' and 'bbb'. The status bar at the bottom indicates the file is 'no2a.cpp' at line 24, column 2, with a UTF-8 encoding and CRLF line endings.

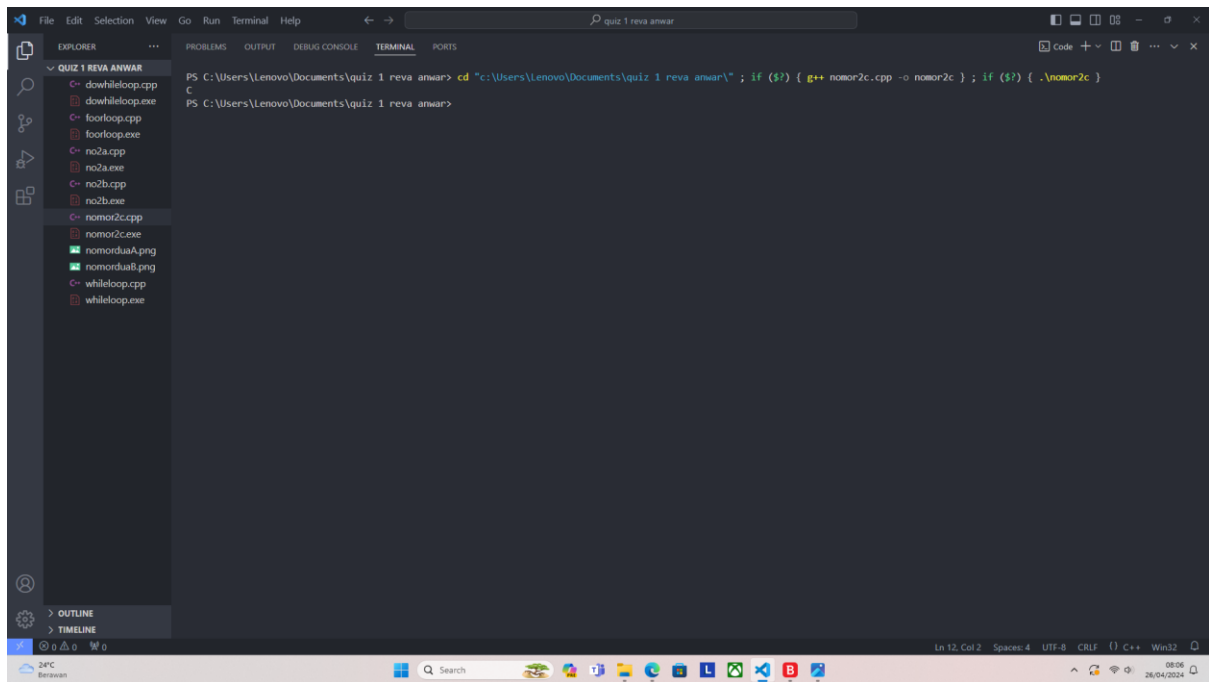
## Output 2b

The screenshot shows the Visual Studio Code interface with a file explorer on the left displaying a project named 'QUIZ 1 REVA ANWAR'. The file explorer lists several files: 'dowhileloop.cpp', 'dowhileloop.exe', 'foorloop.cpp', 'foorloop.exe', 'no2a.cpp', 'no2a.exe', 'no2b.cpp', 'no2b.exe', 'nomorduaA.png', 'whileloop.cpp', and 'whileloop.exe'. The main editor window shows the content of 'no2b.cpp', which contains the following C++ code:

```
PS C:\Users\Lenovo\Documents\quiz 1 reva anwar> cd "c:\Users\Lenovo\Documents\quiz 1 reva anwar\" ; if ($?) { g++ no2b.cpp -o no2b } ; if ($?) { .\no2b }  
9  
PS C:\Users\Lenovo\Documents\quiz 1 reva anwar>
```

The terminal output shows the command being executed and the resulting output '9'. The status bar at the bottom indicates the file is 'no2b.cpp' at line 23, column 12, with a UTF-8 encoding and CRLF line endings.

## Output 2c



### Nomor 3

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

bool IsVokal(char c) {
    // Convert character to lowercase
    c = tolower(c);

    // Check if character is within the range of lowercase vowels
    if (c >= 'a' && c <= 'z') {
        // Check individual vowels
        if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u') {
            return true; // It's a vowel
        } else {
            return false; // It's a consonant
        }
    } else {
        // Invalid input (not a lowercase character)
        return false;
    }
}

int main() {
    char ch;

    cout << "Masukkan karakter: ";
    cin >> ch;
```

```

    if (IsVokal(ch)) {
        cout << ch << " adalah vokal" << endl;
    } else {
        cout << ch << " bukan vokal" << endl;
    }

    return 0;
}

```

Capture:

The screenshot shows the Visual Studio Code interface. The Explorer pane on the left lists files in a project named 'QUIZ 1 REVA ANWAR'. The main editor displays the source code of 'isvokal.cpp', which includes the logic for checking if a character is a vowel. The TERMINAL pane at the bottom shows the command prompt output, including the compilation command and the program's execution results for inputs 'A' and 'R'.

```

int main() {
    char ch;

    cout << "Masukkan karakter: ";
    cin >> ch;

    if (IsVokal(ch)) {
        cout << ch << " adalah vokal" << endl;
    } else {
        cout << ch << " bukan vokal" << endl;
    }

    return 0;
}

```

```

PS C:\Users\lenovo\Documents\quiz 1 reva anwar> cd "C:\Users\lenovo\Documents\quiz 1 reva anwar\" ; if ($?) { g++ isvokal.cpp -o isvokal } ; if ($?) { .\isvokal }
Masukkan karakter: A
A adalah vokal
PS C:\Users\lenovo\Documents\quiz 1 reva anwar>
PS C:\Users\lenovo\Documents\quiz 1 reva anwar> cd "C:\Users\lenovo\Documents\quiz 1 reva anwar\" ; if ($?) { g++ isvokal.cpp -o isvokal } ; if ($?) { .\isvokal }
Masukkan karakter: R
R bukan vokal
PS C:\Users\lenovo\Documents\quiz 1 reva anwar>

```

## Nomor 4

```

#include <iostream>
using namespace std;

int main() {
    // ... (other code) ...

    // Create a string variable named 'food' and initialize it with value
    "Pizza"
    string food = "Pizza";

    // Create a pointer variable 'ptr' and point it to the 'food' variable
    string *ptr = &food;

    // ... (rest of the code) ...
}

```