

LAPORAN PRAKTIKUM
Modul 1
“Pengenal C++: Subprogram & Array”

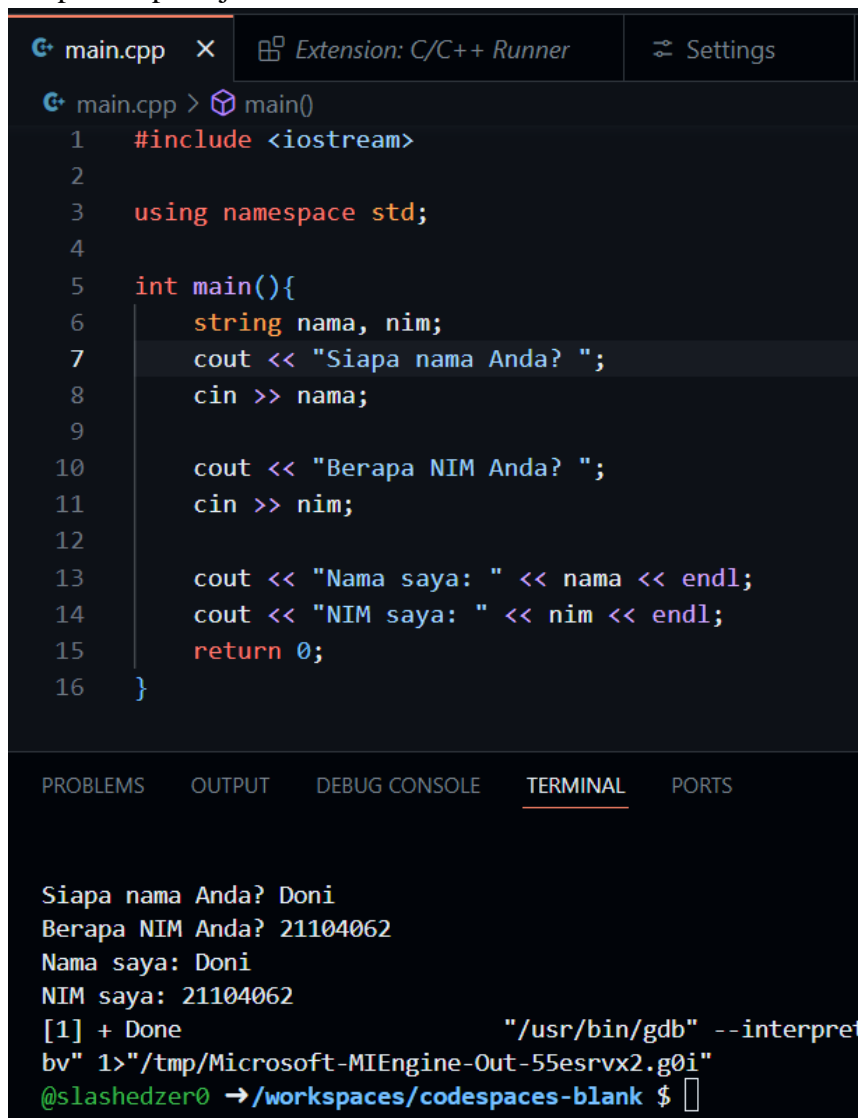


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SE-05-02

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PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
2024

1. (Input/Output) Tuliskan kode berikut dan jalankan. a) Masukkan nama lengkap anda dan nim anda. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban. b) Masukkan nama pertama anda dan nim anda. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

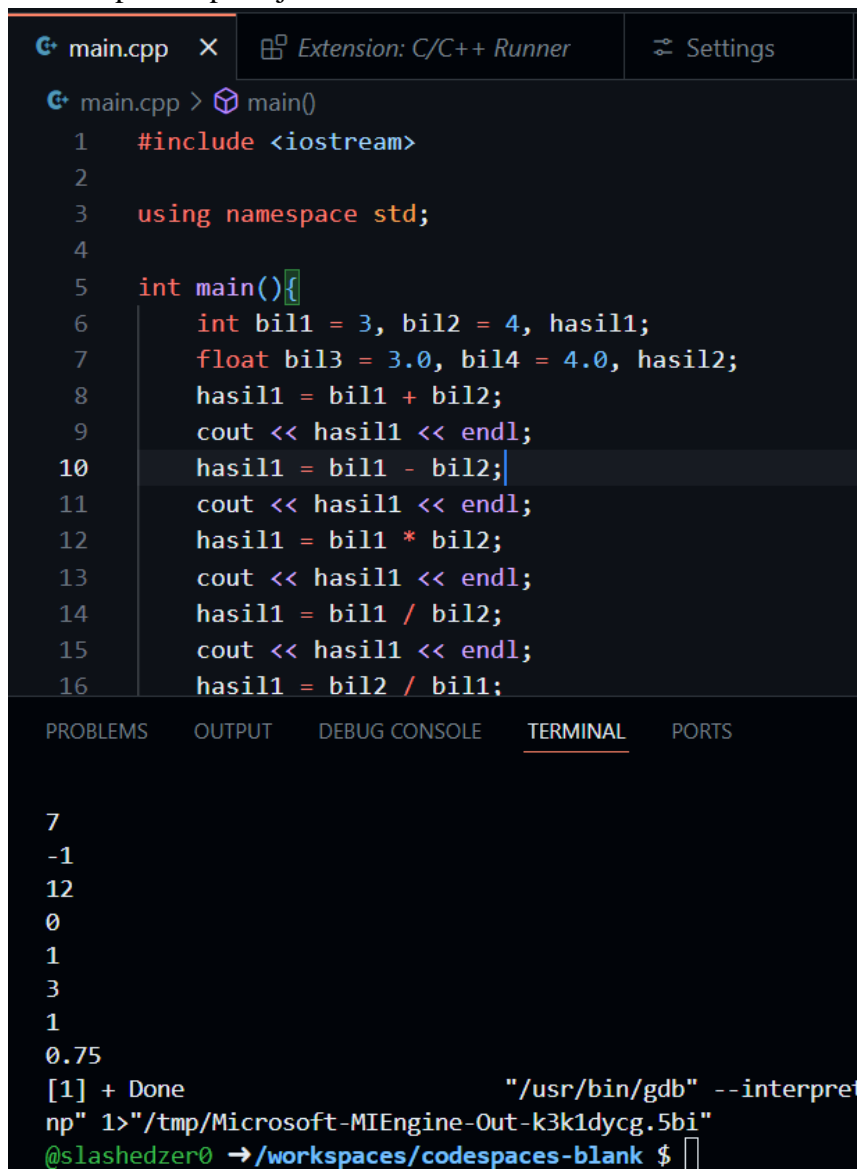


```
main.cpp x Extension: C/C++ Runner Settings  
main.cpp > main()  
1  #include <iostream>  
2  
3  using namespace std;  
4  
5  int main(){  
6      string nama, nim;  
7      cout << "Siapa nama Anda? ";  
8      cin >> nama;  
9  
10     cout << "Berapa NIM Anda? ";  
11     cin >> nim;  
12  
13     cout << "Nama saya: " << nama << endl;  
14     cout << "NIM saya: " << nim << endl;  
15     return 0;  
16 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Siapa nama Anda? Doni  
Berapa NIM Anda? 21104062  
Nama saya: Doni  
NIM saya: 21104062  
[1] + Done "/usr/bin/gdb" --interpret  
bv" 1>"/tmp/Microsoft-MIEngine-Out-55esrvx2.g0i"  
@slashedzer0 →/workspaces/codespaces-blank $
```

2. (Operasi aritmatika) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.



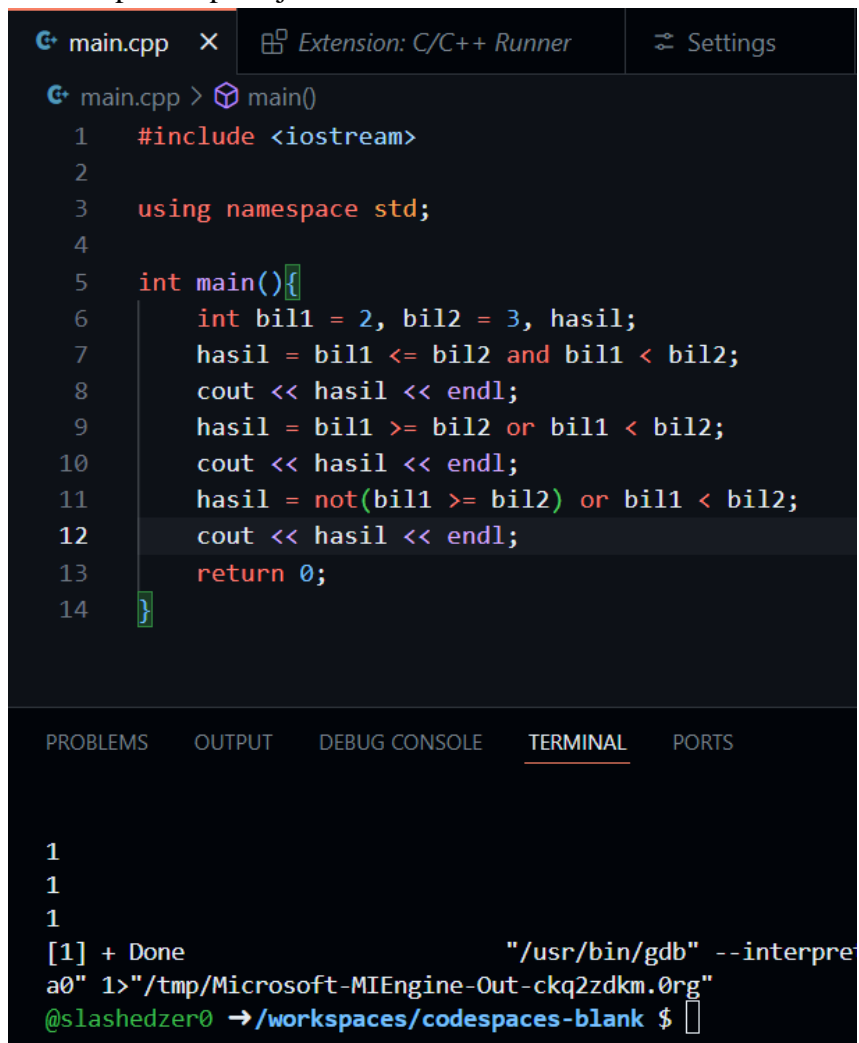
```
main.cpp × Extension: C/C++ Runner Settings  
main.cpp > main()  
1  #include <iostream>  
2  
3  using namespace std;  
4  
5  int main(){  
6      int bil1 = 3, bil2 = 4, hasil1;  
7      float bil3 = 3.0, bil4 = 4.0, hasil2;  
8      hasil1 = bil1 + bil2;  
9      cout << hasil1 << endl;  
10     hasil1 = bil1 - bil2;  
11     cout << hasil1 << endl;  
12     hasil1 = bil1 * bil2;  
13     cout << hasil1 << endl;  
14     hasil1 = bil1 / bil2;  
15     cout << hasil1 << endl;  
16     hasil1 = bil2 / bil1;  
  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
  
7  
-1  
12  
0  
1  
3  
1  
0.75  
[1] + Done "/usr/bin/gdb" --interpret  
np" 1>"/tmp/Microsoft-MIEngine-Out-k3k1dycg.5bi"  
@slashedzer0 →/workspaces/codespaces-blank $
```

3. (Operasi perbandingan) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.



```
main.cpp × Extension: C/C++ Runner Settings  
main.cpp > main()  
1 #include <iostream>  
2  
3 using namespace std;  
4  
5 int main(){  
6     int bil1 = 2, bil2 = 3, hasil;  
7     hasil = bil1 > bil2;  
8     cout << hasil << endl;  
9     hasil = bil1 >= bil2;  
10    cout << hasil << endl;  
11    hasil = bil1 < bil2;  
12    cout << hasil << endl;  
13    hasil = bil1 <= bil2;  
14    cout << hasil << endl;  
15    hasil = bil1 == bil2;  
16    cout << hasil << endl;  
  
0  
0  
1  
1  
0  
1  
[1] + Done "/usr/bin/gdb" --interpre  
t1" 1>"/tmp/Microsoft-MIEngine-Out-w3q2k4k3.nwu"  
@slashedzer0 →/workspaces/codespaces-blank $
```

4. (Operasi logika) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

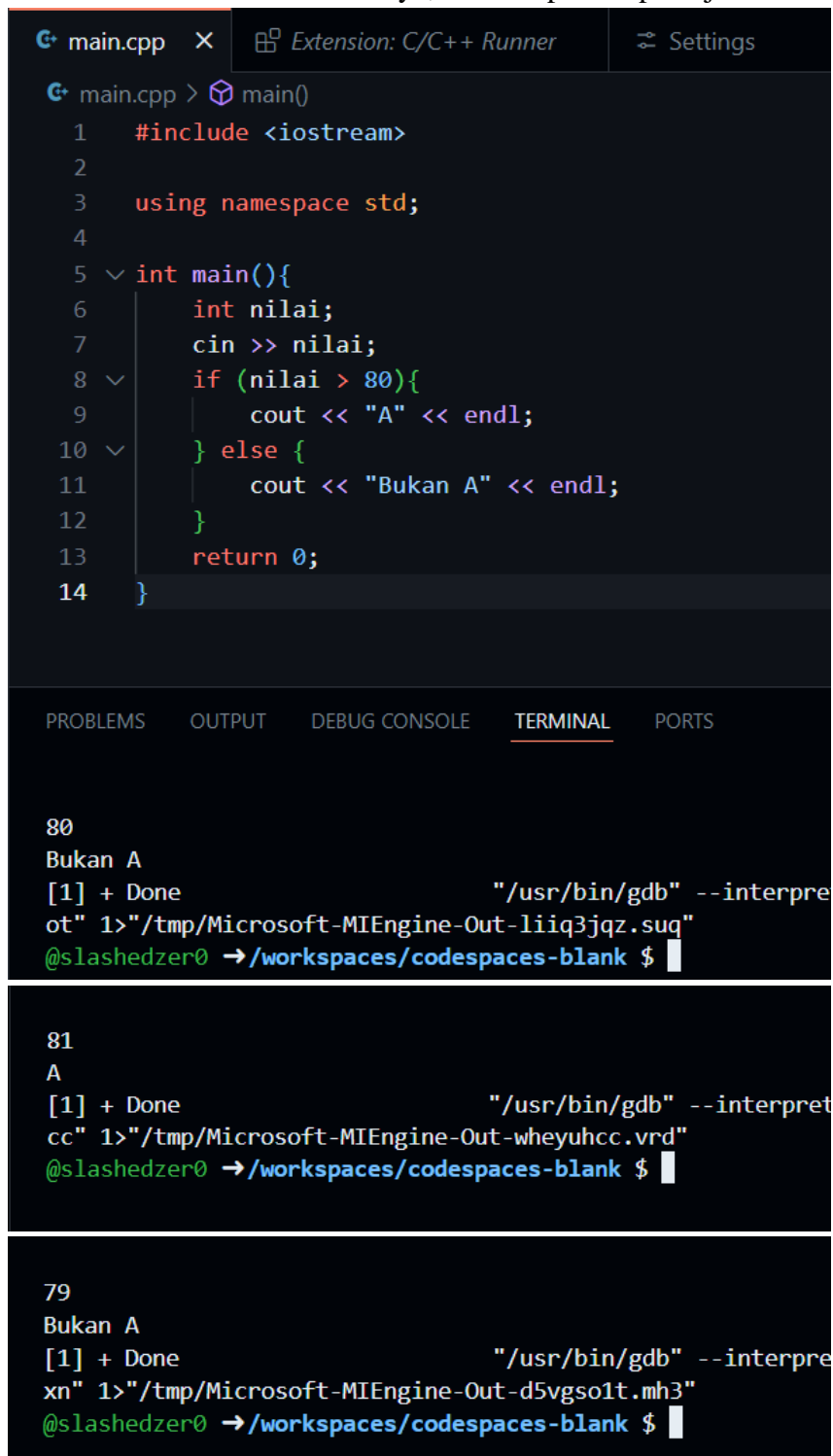


```
main.cpp × Extension: C/C++ Runner Settings  
main.cpp > main()  
1 #include <iostream>  
2  
3 using namespace std;  
4  
5 int main(){  
6     int bil1 = 2, bil2 = 3, hasil;  
7     hasil = bil1 <= bil2 and bil1 < bil2;  
8     cout << hasil << endl;  
9     hasil = bil1 >= bil2 or bil1 < bil2;  
10    cout << hasil << endl;  
11    hasil = not(bil1 >= bil2) or bil1 < bil2;  
12    cout << hasil << endl;  
13    return 0;  
14 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
1  
1  
1  
[1] + Done "/usr/bin/gdb" --interpre  
a0" 1>"/tmp/Microsoft-MIEngine-Out-ckq2zdkm.0rg"  
@slashedzer0 →/workspaces/codespaces-blank $
```

5. (Percabangan if-else) Tuliskan kode berikut dan jalankan. Masukkan input 80, 81, dan 79. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.



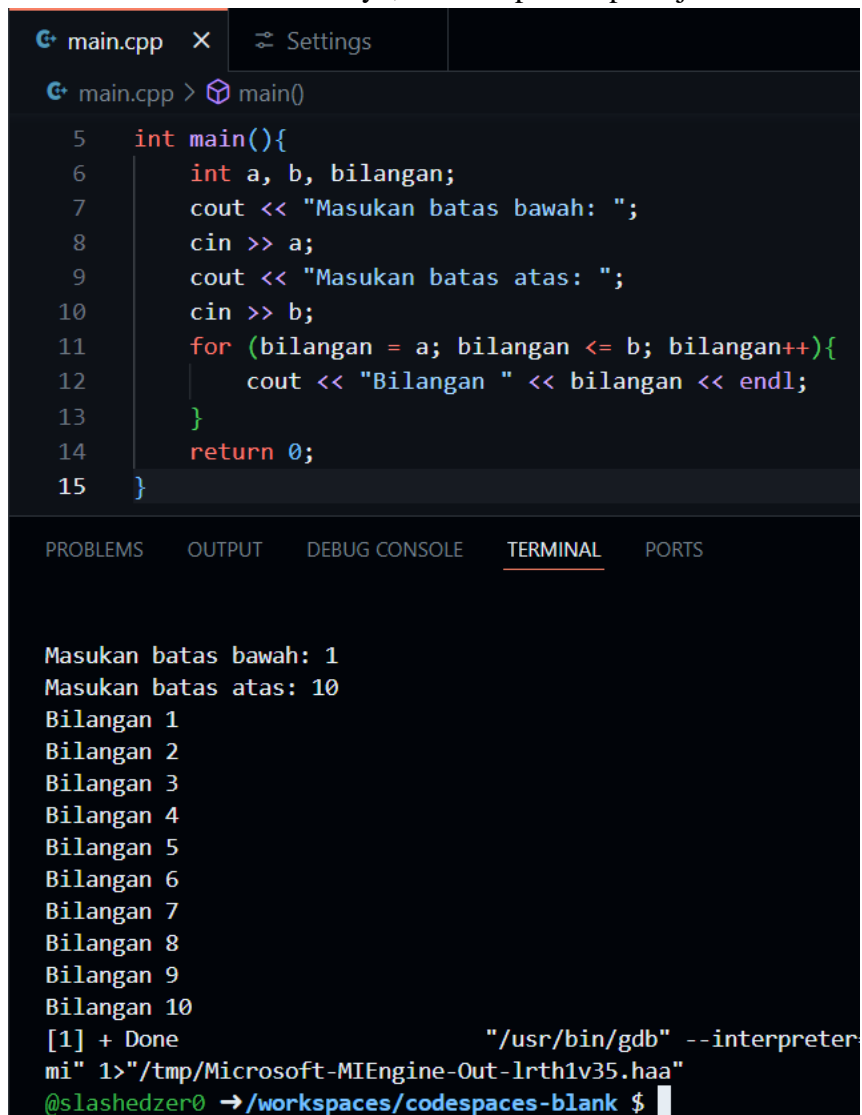
```
main.cpp x Extension: C/C++ Runner Settings
main.cpp > main()
1  #include <iostream>
2
3  using namespace std;
4
5  int main(){
6      int nilai;
7      cin >> nilai;
8      if (nilai > 80){
9          cout << "A" << endl;
10     } else {
11         cout << "Bukan A" << endl;
12     }
13     return 0;
14 }
```

80
Bukan A
[1] + Done "/usr/bin/gdb" --interpret
ot" 1>"/tmp/Microsoft-MIEngine-Out-lliq3jqz.suq"
@slashedzer0 →/workspaces/codespaces-blank \$

81
A
[1] + Done "/usr/bin/gdb" --interpret
cc" 1>"/tmp/Microsoft-MIEngine-Out-wheyuhcc.vrd"
@slashedzer0 →/workspaces/codespaces-blank \$

79
Bukan A
[1] + Done "/usr/bin/gdb" --interpret
xn" 1>"/tmp/Microsoft-MIEngine-Out-d5vgso1t.mh3"
@slashedzer0 →/workspaces/codespaces-blank \$

6. (Perulangan for-to-do) Tuliskan kode berikut dan jalankan. Masukkan 1 dan 10. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.



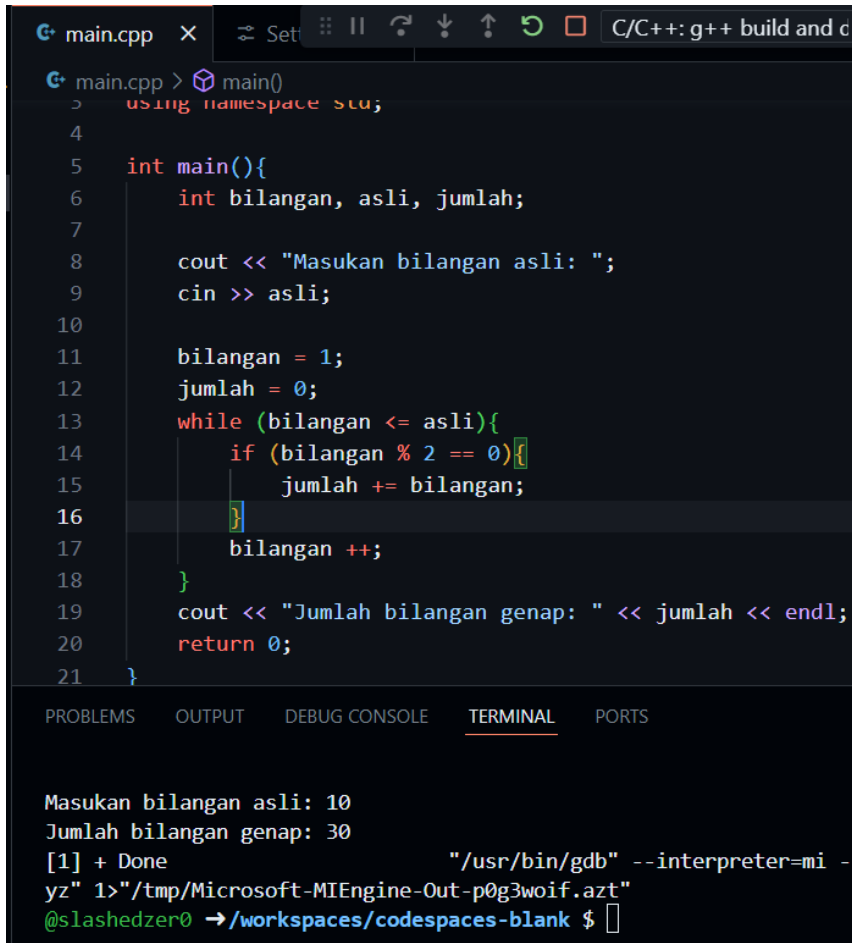
The screenshot shows a C++ IDE with a file named `main.cpp` and a `main()` function. The code is as follows:

```
5  int main(){
6      int a, b, bilangan;
7      cout << "Masukan batas bawah: ";
8      cin >> a;
9      cout << "Masukan batas atas: ";
10     cin >> b;
11     for (bilangan = a; bilangan <= b; bilangan++){
12         cout << "Bilangan " << bilangan << endl;
13     }
14     return 0;
15 }
```

The terminal output shows the program's execution with the inputs 1 and 10, resulting in the numbers 1 through 10 being printed on separate lines.

```
Masukan batas bawah: 1
Masukan batas atas: 10
Bilangan 1
Bilangan 2
Bilangan 3
Bilangan 4
Bilangan 5
Bilangan 6
Bilangan 7
Bilangan 8
Bilangan 9
Bilangan 10
[1] + Done                                     "/usr/bin/gdb" --interpreter
mi" 1>"/tmp/Microsoft-MIEngine-Out-lrth1v35.haa"
@slashedzer0 ->/workspaces/codespaces-blank $
```

7. (Perulangan while-do) Tuliskan kode berikut dan jalankan. Masukkan pada input bilangan 10. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.



The screenshot shows a C++ IDE with a file named `main.cpp`. The code implements a while loop that calculates the sum of even numbers from 1 to the input value. The terminal shows the program's execution with the input 10 and the output 30.

```
main.cpp > main()
1  using namespace std;
2
3
4
5  int main(){
6      int bilangan, asli, jumlah;
7
8      cout << "Masukan bilangan asli: ";
9      cin >> asli;
10
11     bilangan = 1;
12     jumlah = 0;
13     while (bilangan <= asli){
14         if (bilangan % 2 == 0){
15             jumlah += bilangan;
16         }
17         bilangan ++;
18     }
19     cout << "Jumlah bilangan genap: " << jumlah << endl;
20     return 0;
21 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Masukan bilangan asli: 10
Jumlah bilangan genap: 30
[1] + Done "/usr/bin/gdb" --interpreter=mi --
yz" 1>"/tmp/Microsoft-MIEngine-Out-p0g3woif.azt"
@slashedzer0 ->/workspaces/codespaces-blank $
```