TUGAS TEORI KONSEP PEMPROGRAMAN

JILID 6

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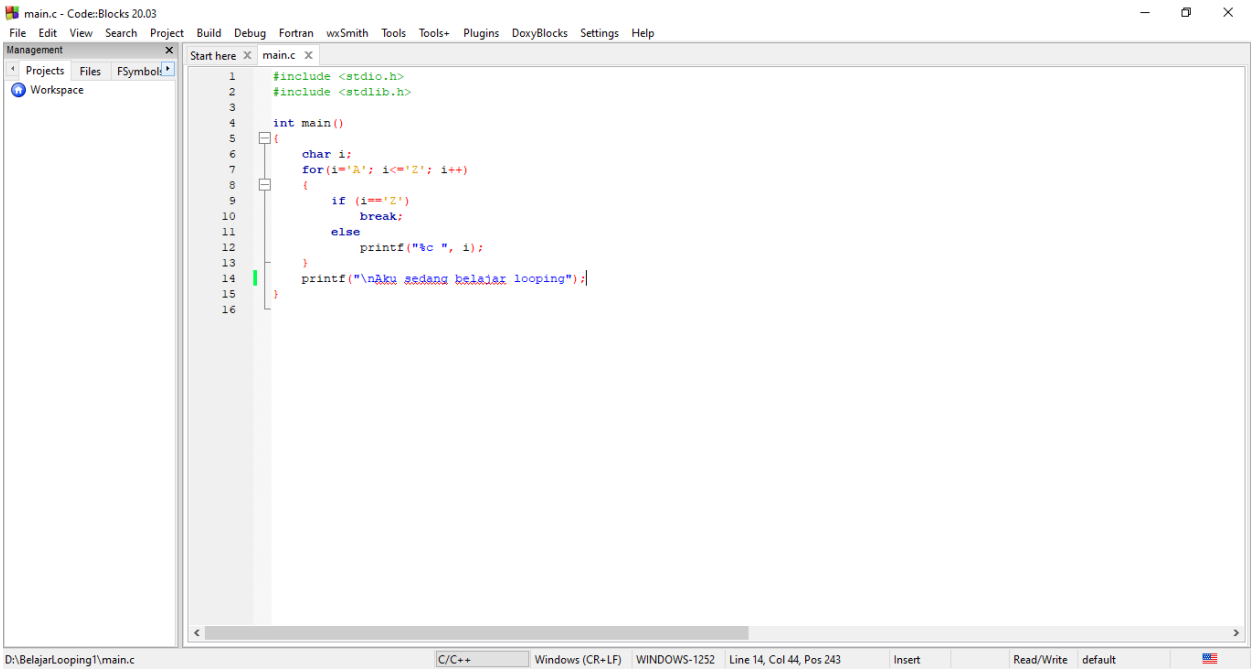
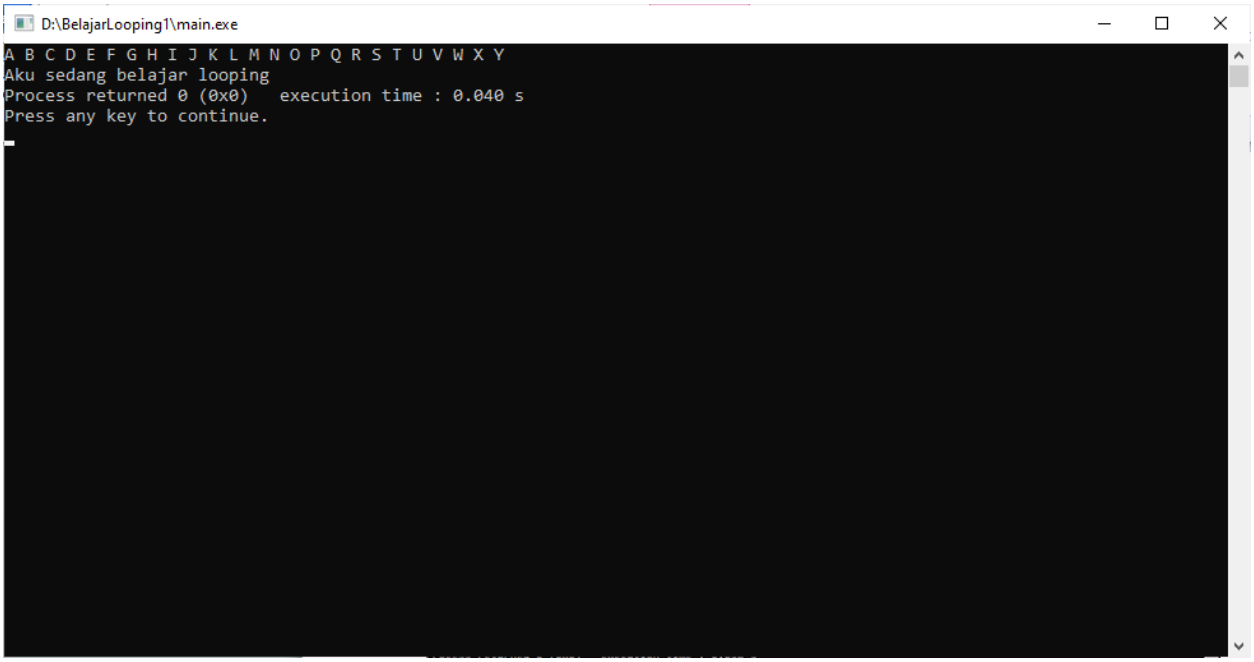
POLITEKNIK ELEKTRONIKA NEGERI SURABAYA

1. Dengan menggunakan pernyataan break, buatlah program yang dapat menampilkan semua tampilan karakter yang diketikkan dan program berakhir ketika ditekan tombol Enter.

Jawab :

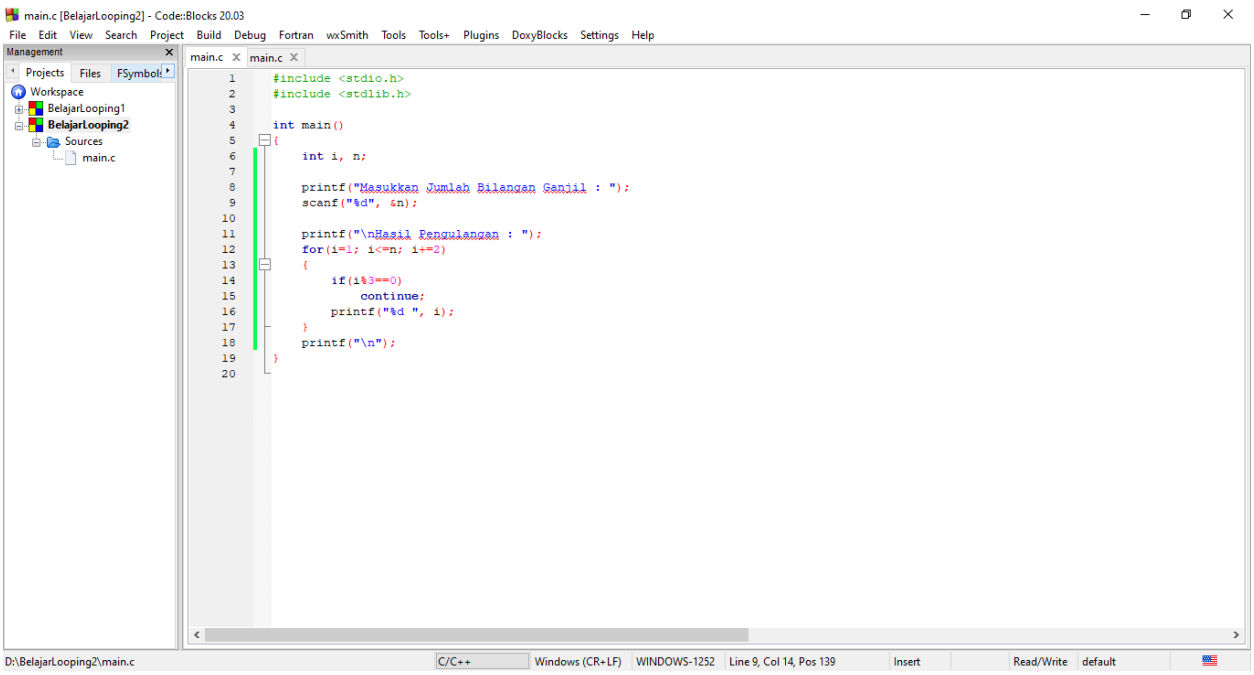


Output :

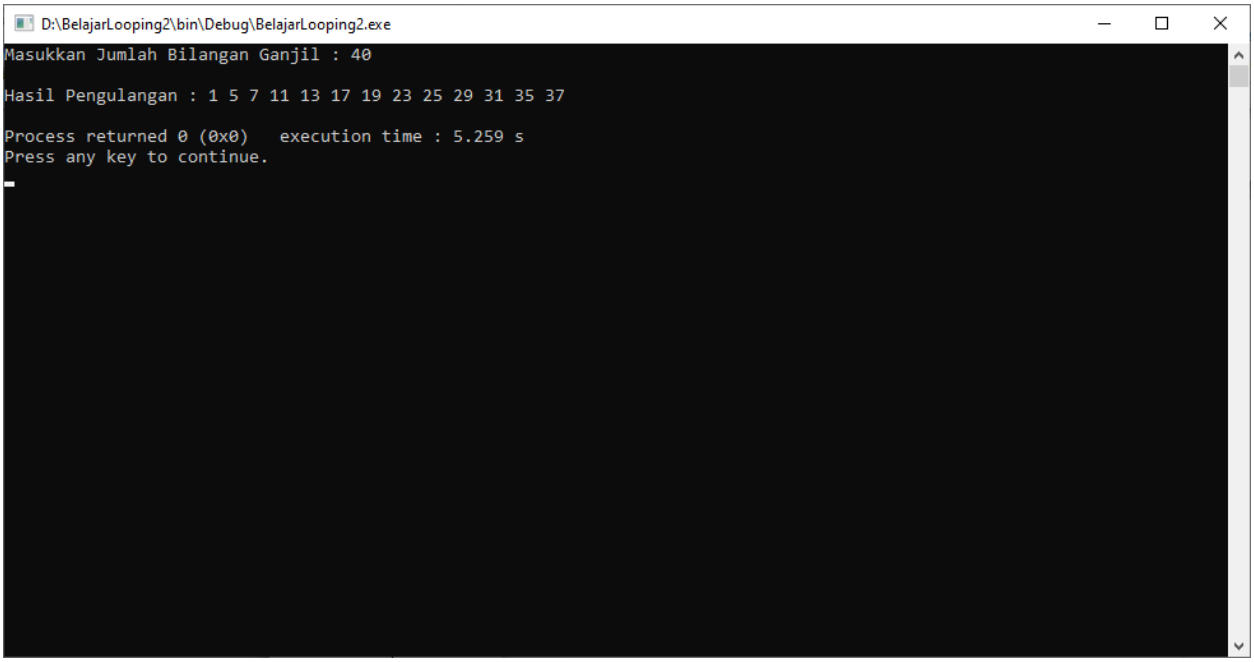


2. Dengan menggunakan pernyataan continue, buatlah program yang dapat menampilkan bilangan ganjil dari 1 sampai < n (n diinputkan), kecuali bilangan ganjil tersebut kelipatan 3.

Jawab :

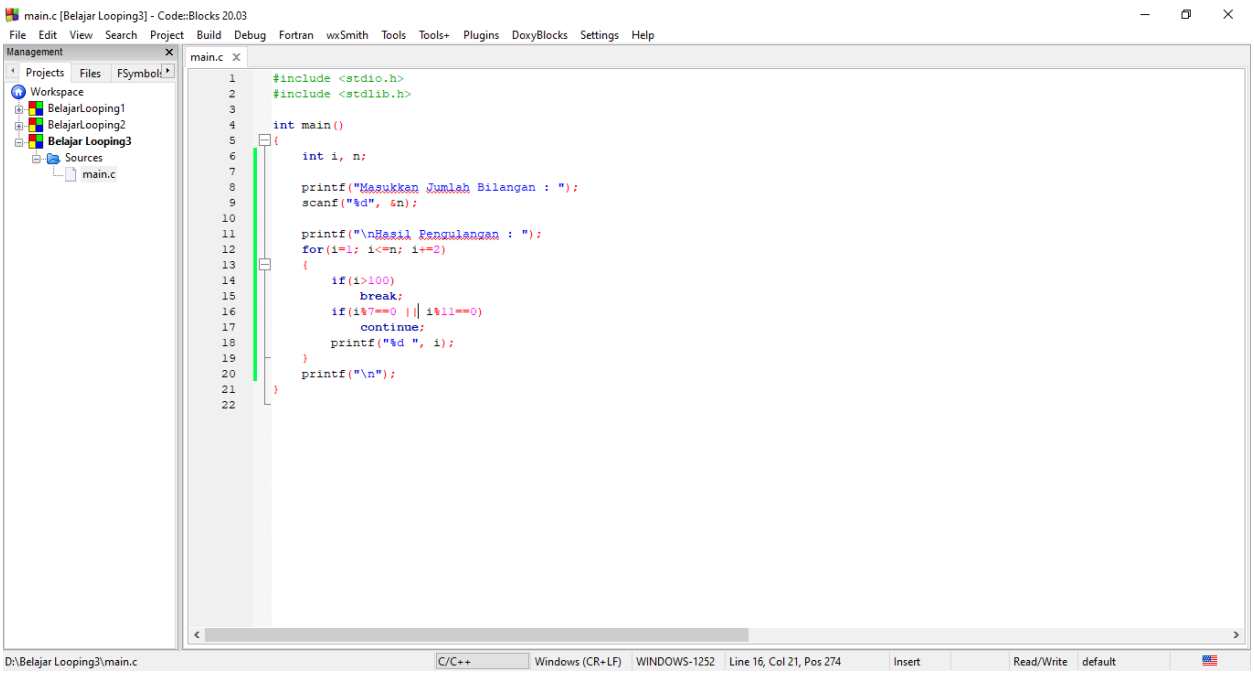


Output :

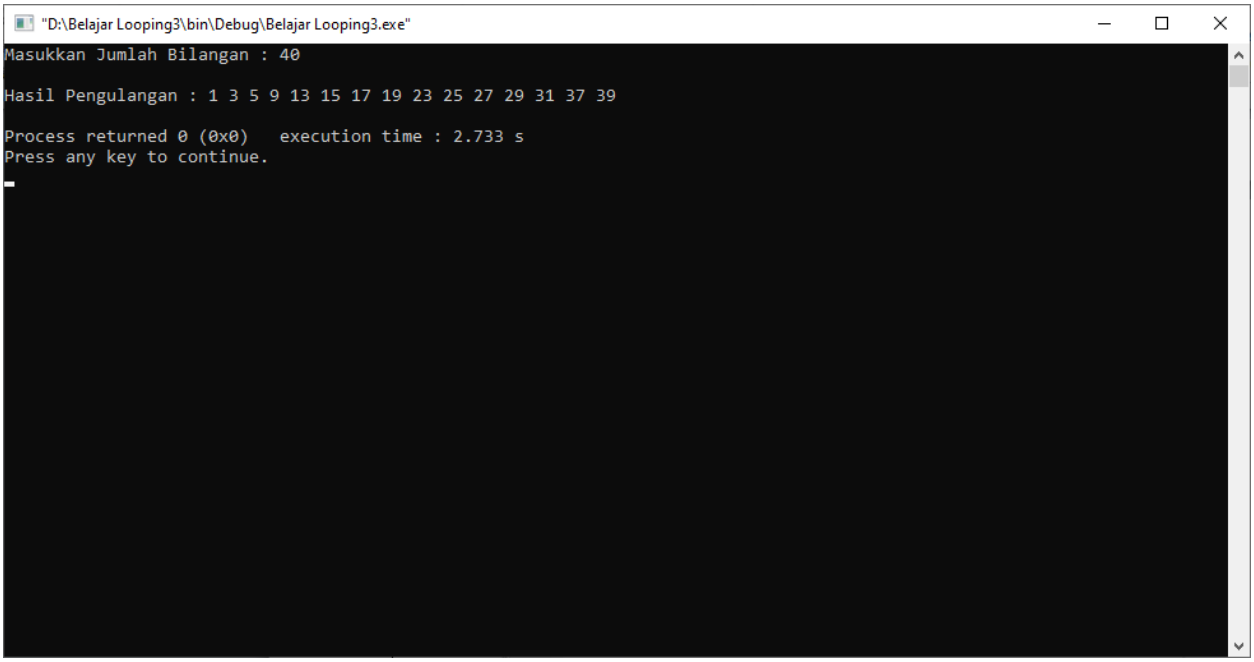


3. Dengan menggunakan pernyataan break dan continue, buatlah program untuk membuat program dengan input n, dan output, bilangan ganjil kecuali kelipatan 7 dan 11 mulai dari 1 sampai < n atau bilangan tersebut <100

Jawab :



Output :



4. Buatlah program untuk menerima daftar nilai mahasiswa sbb :

Input : - Jumlah data (n)

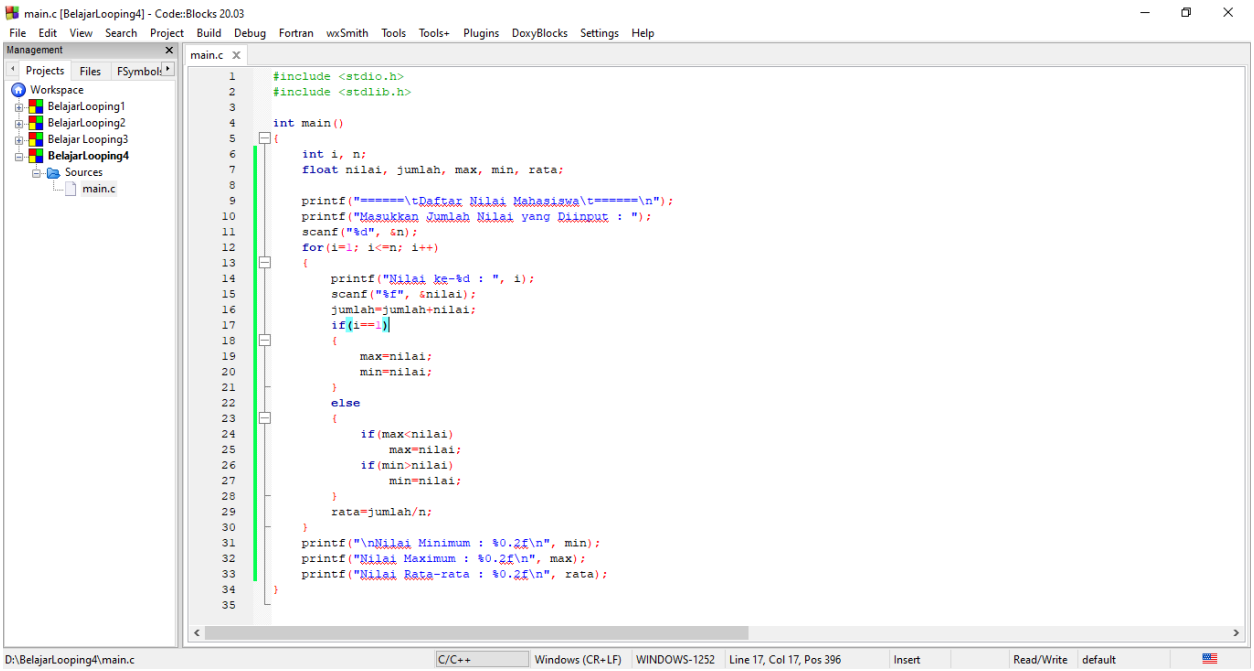
- Nilai ke-1 s/d Nilai ke-n

Output :- Nilai minimal

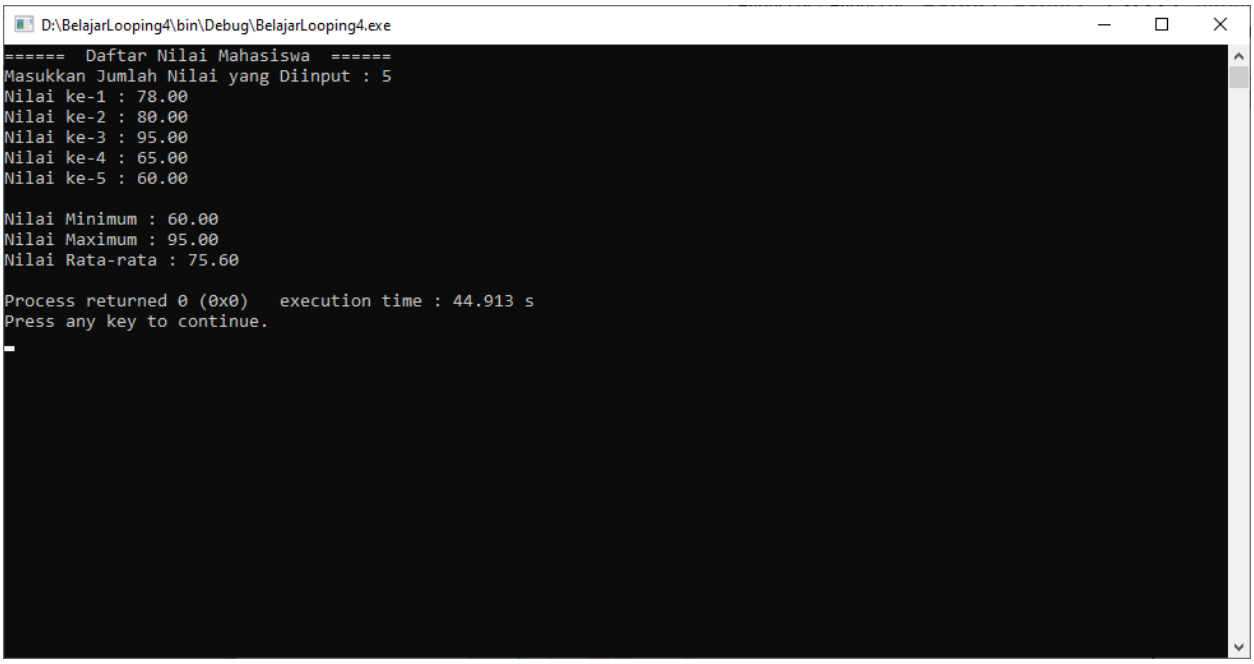
- Nilai maksimal
- Nilai rata-rata (rata-rata = nilai total / jumlah data)

- (Petunjuk : Gunakan loop *for* dan seleksi kondisi dengan *if*)

Jawab :



Output :



5. Dengan menggunakan pernyataan *nested loop*, buatlah program berikut:

input: n

output:

1 2 3 4 5 … n

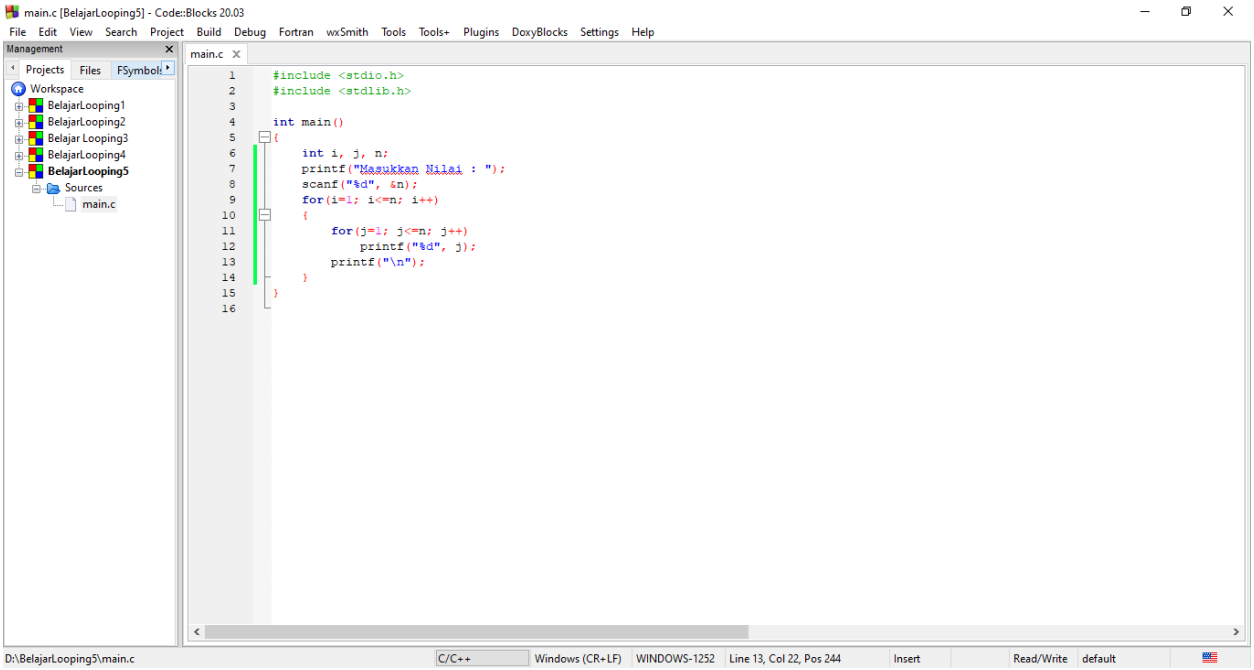
1 2 3 4 5 … n

1 2 3 4 5 … n n kali

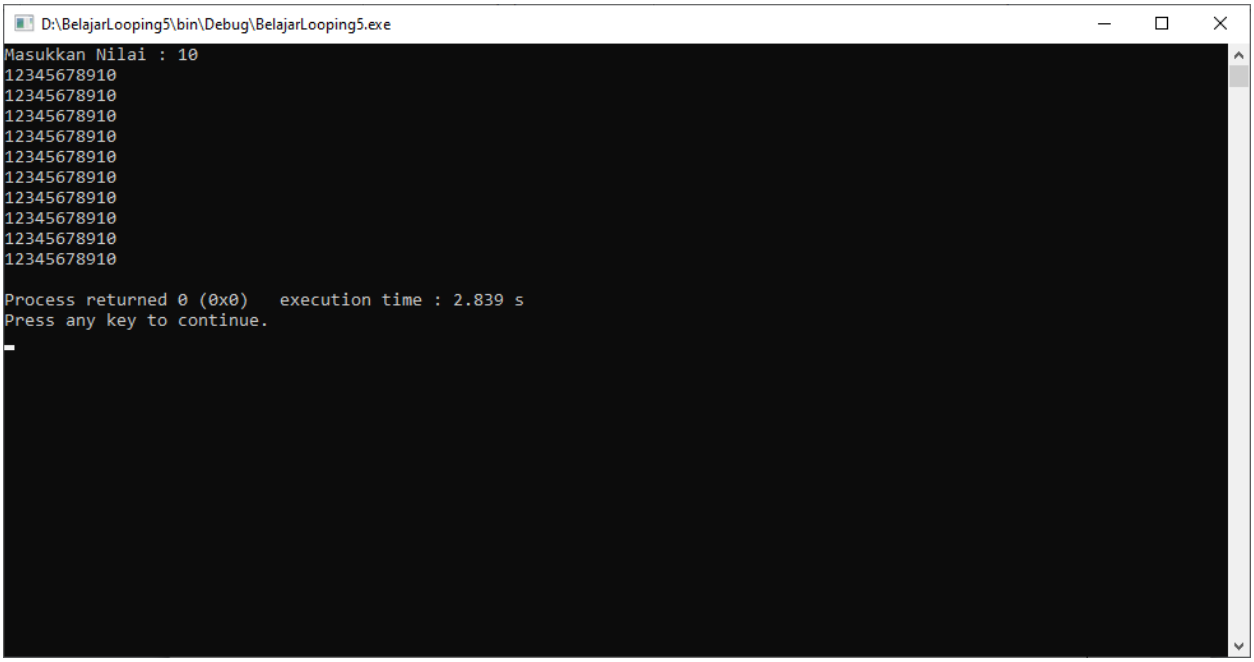
……

1 2 3 4 5 … n

Jawab :



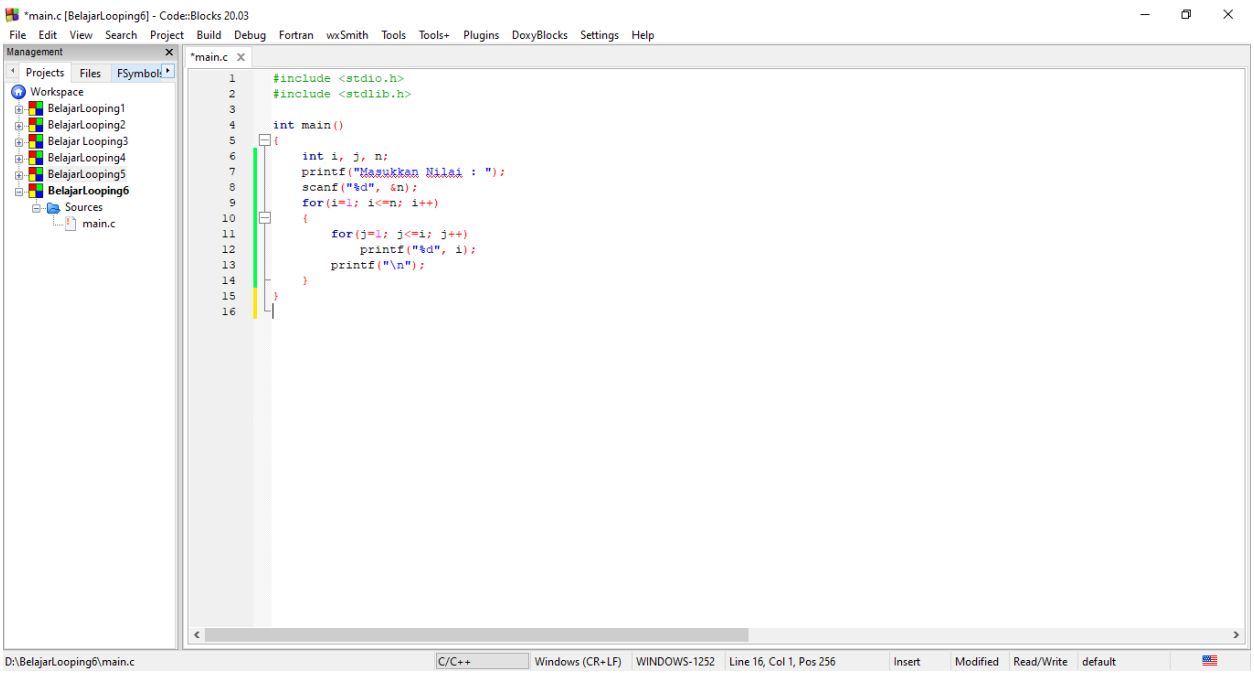
Output :



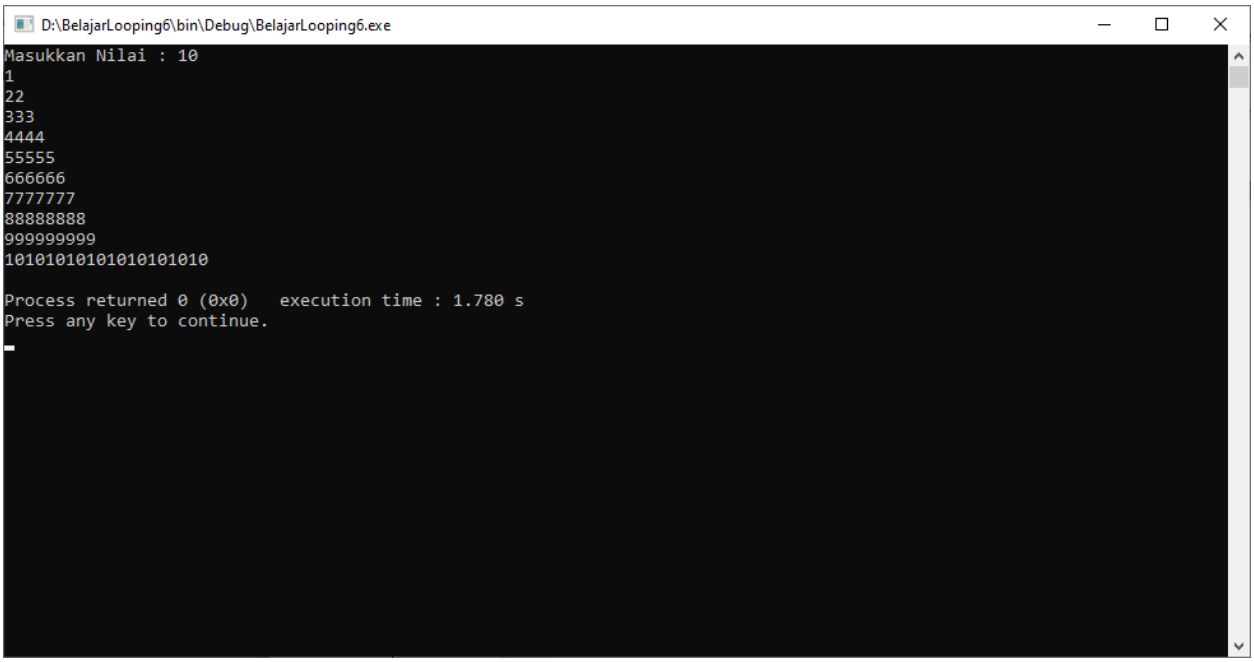
6. Dengan menggunakan pernyataan *nested loop*, buatlah program berikut:

input: n
output:
1
2 2
3 3 3 n kali
……
n n n n n … n

Jawab :



Output :

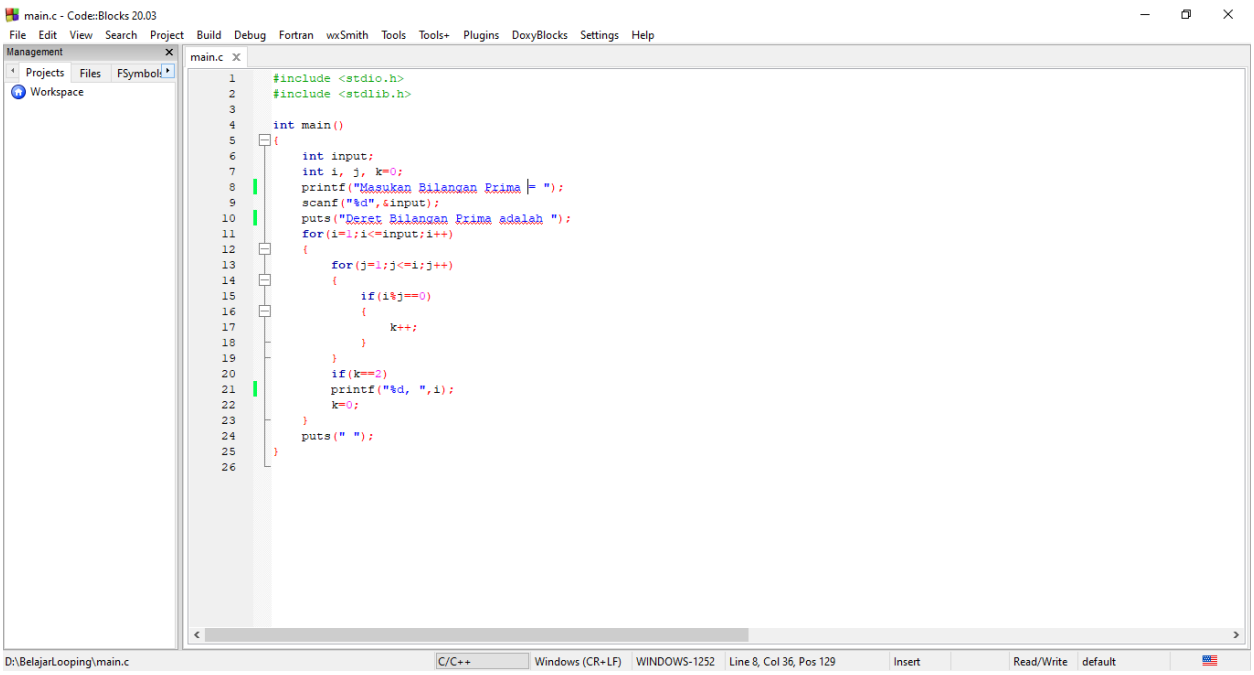


7. Dengan menggunakan pernyataan *nested loop*, buatlah program berikut:

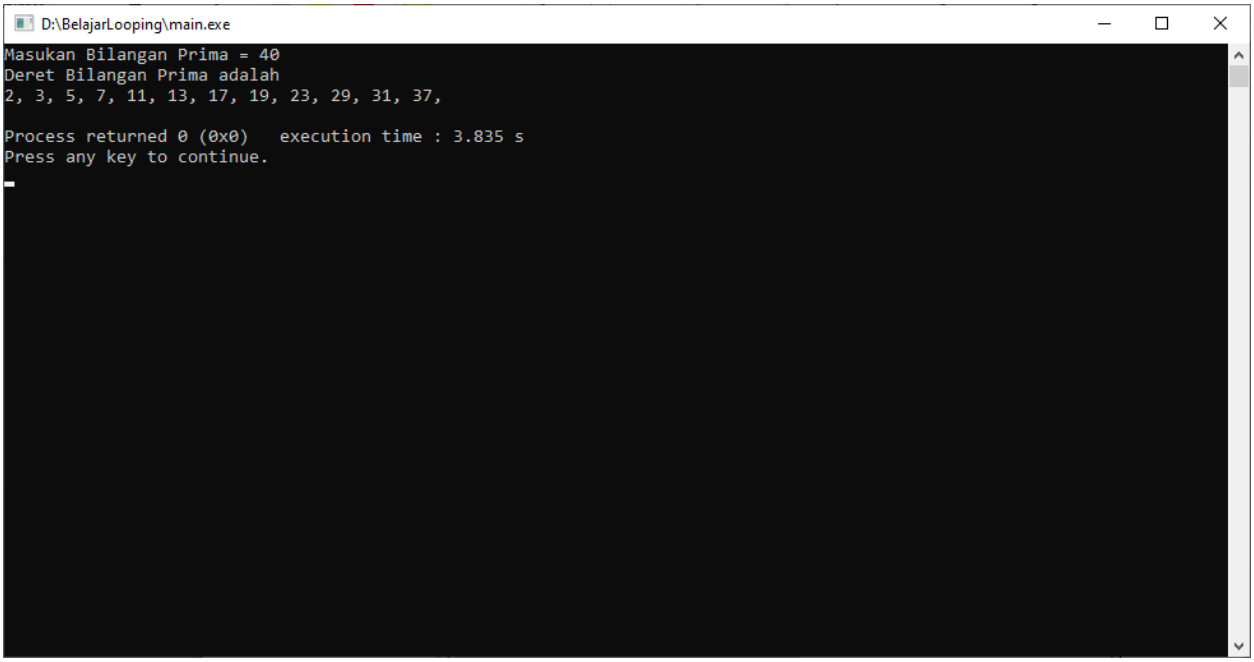
input: n

output: 2 3 5 7 11…. Bilangan prima ke n

Jawab :



Output :

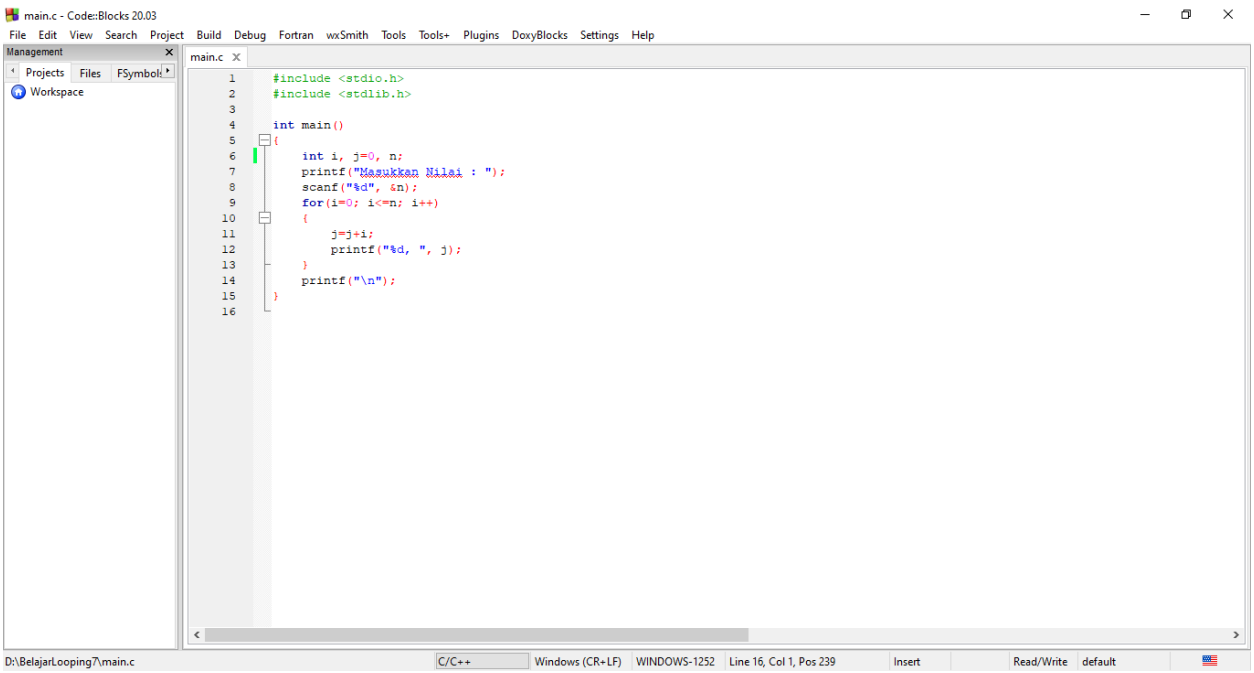


8. Dengan menggunakan pernyataan *nested loop*, buatlah program berikut:

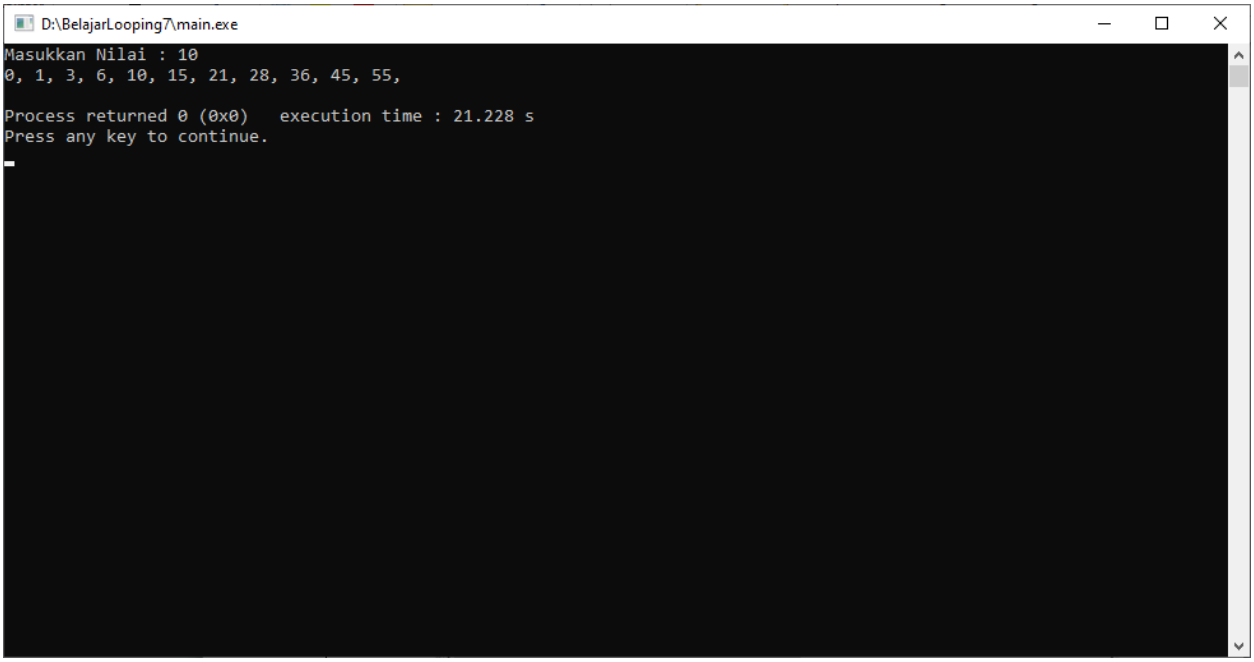
input: n

output: 0 1 3 6 10 15 21 28 …. Bilangan ke n

Jawab :



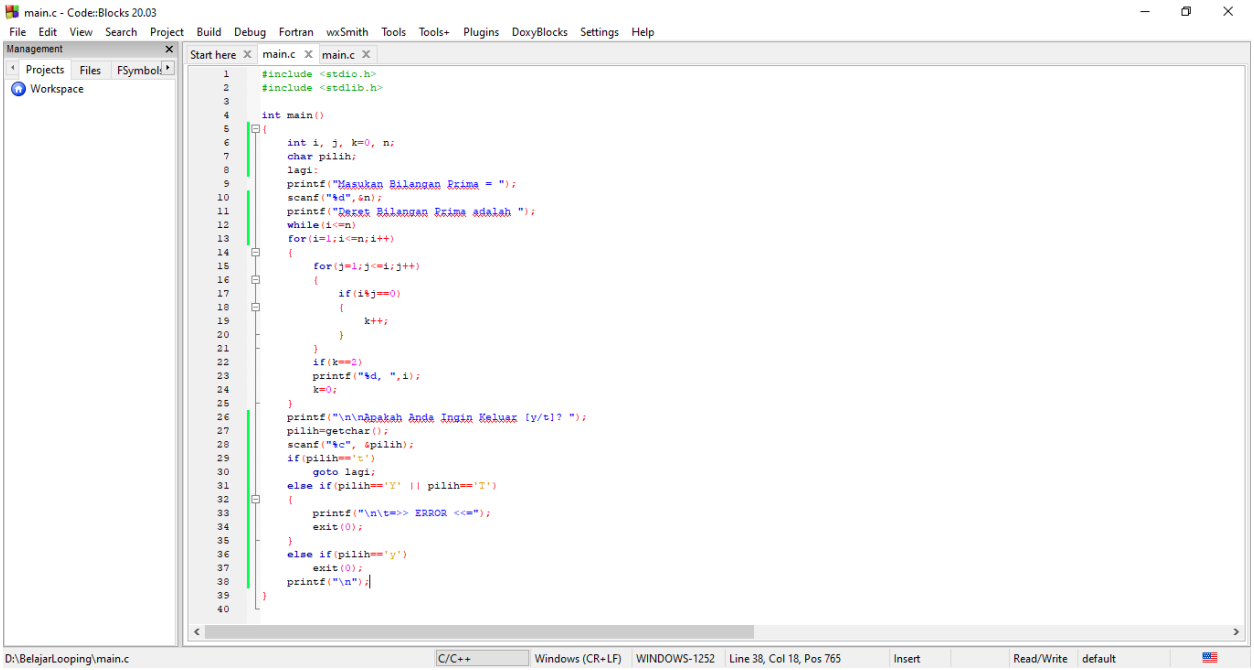
Output :



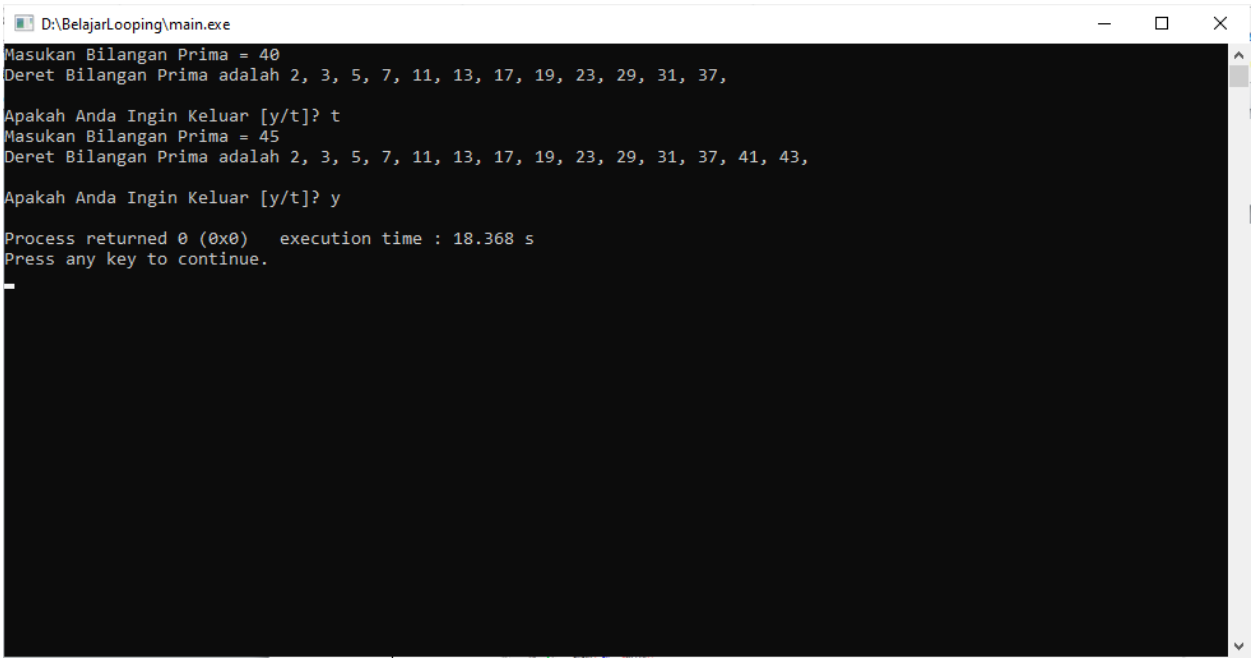
9. Pada akhir setiap 2 buah program diatas tambahkan tanyaan “apakah anda ingin keluar (y/t)?”, pertanyaan tersebut hanya bisa di jawab dengan huruf ‘y’ (y kecil) dan ‘t’(t kecil). Dan akan keluar dari program setelah dijawab dengan ‘y’ (y kecil).

Jawab :

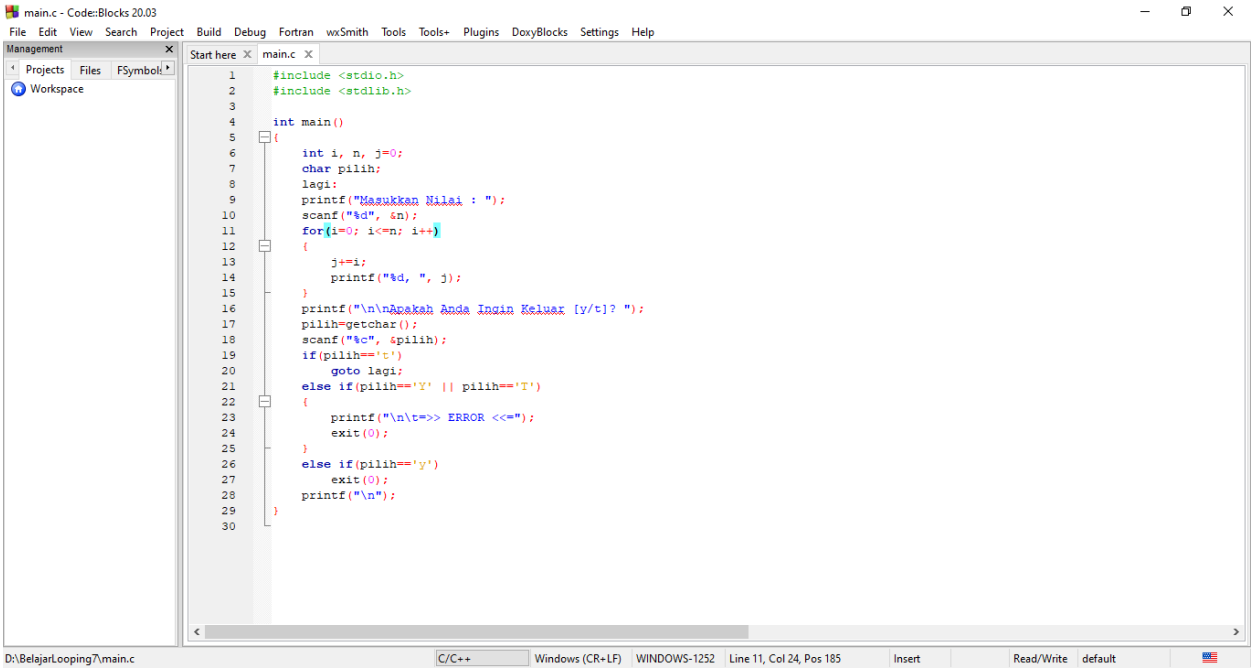
1.


main.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbol
Workspace
Start here
main.c
main.c
#include <stdio.h>
#include <stdlib.h>
int main()
{
int i, j, k=0, n;
char pilih;
lagi:
printf("Masukan Bilangan Prima = ");
scanf("%d",&n);
printf("Deret Bilangan Prima adalah ");
while(i<=n)
for(i=1;i<=n;i++)
{
for(j=1;j<=i;j++)
{
if(i%j==0)
{
k++;
}
}
if(k==2)
printf("%d, ",i);
k=0;
}
printf("\n\nApakah Anda Ingin Keluar [y/t]? ");
pilih=getchar();
scanf("%c", &pilih);
if(pilih=='t')
goto lagi;
else if(pilih=='Y' || pilih=='T')
{
printf("\n\t=>> ERROR <<=");
exit(0);
}
else if(pilih=='y')
exit(0);
printf("\n");
}
D:\BelajarLooping\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 38, Col 18, Pos 765
Insert
Read/Write
default

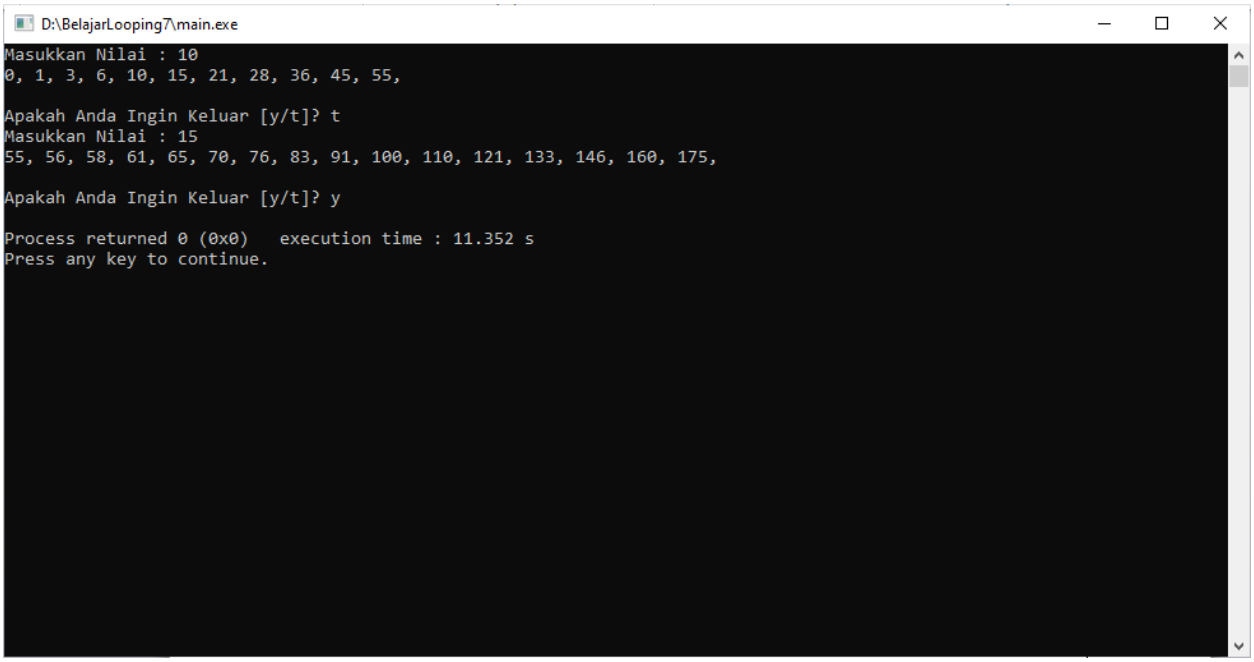
Output :


D:\BelajarLooping\main.exe
Masukan Bilangan Prima = 40
Deret Bilangan Prima adalah 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37,
Apakah Anda Ingin Keluar [y/t]? t
Masukan Bilangan Prima = 45
Deret Bilangan Prima adalah 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43,
Apakah Anda Ingin Keluar [y/t]? y
Process returned 0 (0x0) execution time : 18.368 s
Press any key to continue.

2.


main.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols
Workspace
Start here
main.c
#include <stdio.h>
#include <stdlib.h>
int main()
{
int i, n, j=0;
char pilih;
lagi:
printf("Masukkan Nilai : ");
scanf("%d", &n);
for(i=0; i<=n; i++)
{
j+=i;
printf("%d, ", j);
}
printf("\n\nApakah Anda Ingin Keluar [y/t]? ");
pilih=getchar();
scanf("%c", &pilih);
if(pilih=='t')
goto lagi;
else if(pilih=='Y' || pilih=='T')
{
printf("\n\t=>> ERROR <<=");
exit(0);
}
else if(pilih=='y')
exit(0);
printf("\n");
}
D:\BelajarLooping7\main.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 11, Col 24, Pos 185
Insert
Read/Write
default

Output :


D:\BelajarLooping7\main.exe
Masukkan Nilai : 10
0, 1, 3, 6, 10, 15, 21, 28, 36, 45, 55,
Apakah Anda Ingin Keluar [y/t]? t
Masukkan Nilai : 15
55, 56, 58, 61, 65, 70, 76, 83, 91, 100, 110, 121, 133, 146, 160, 175,
Apakah Anda Ingin Keluar [y/t]? y
Process returned 0 (0x0) execution time : 11.352 s
Press any key to continue.