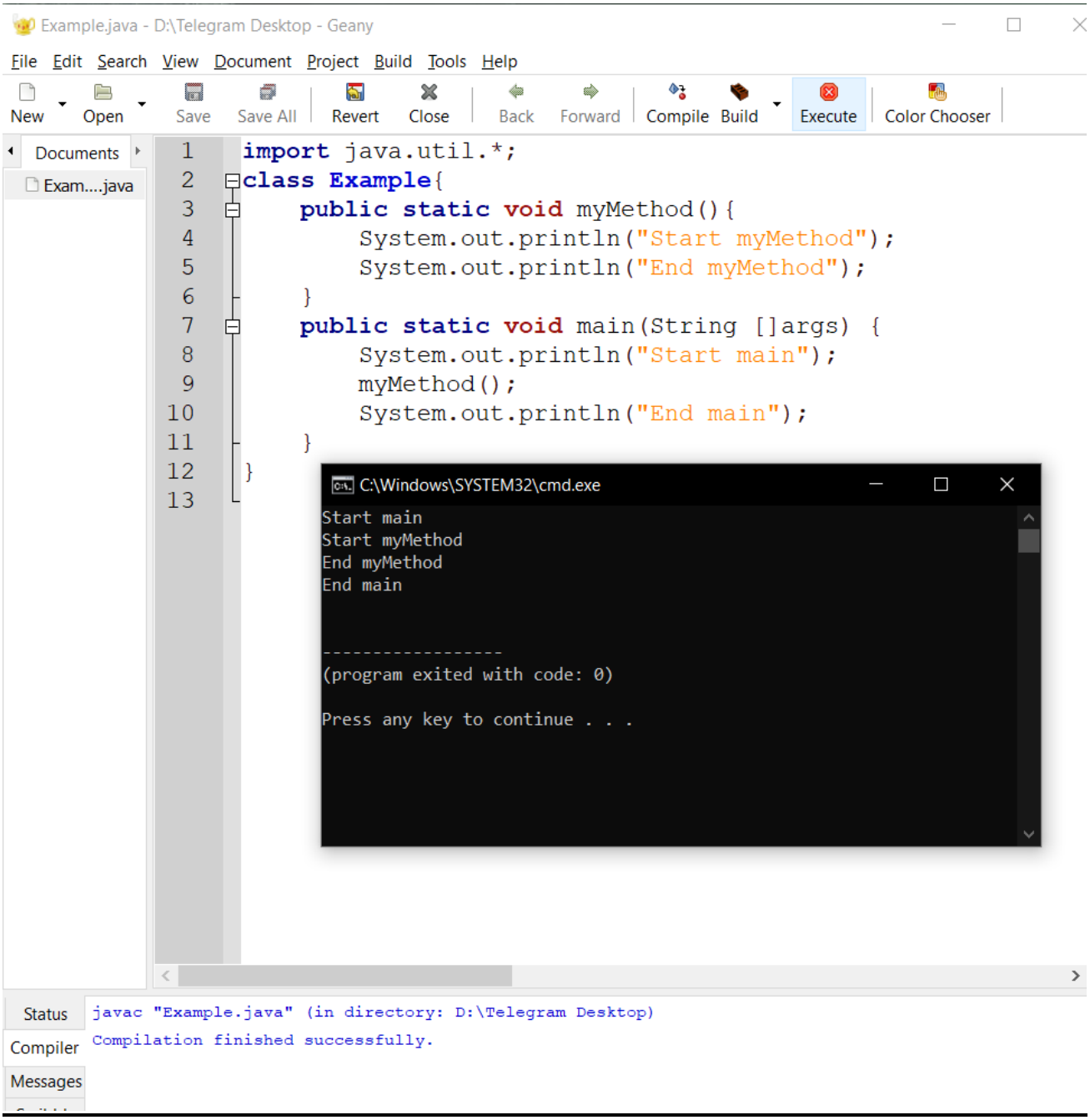
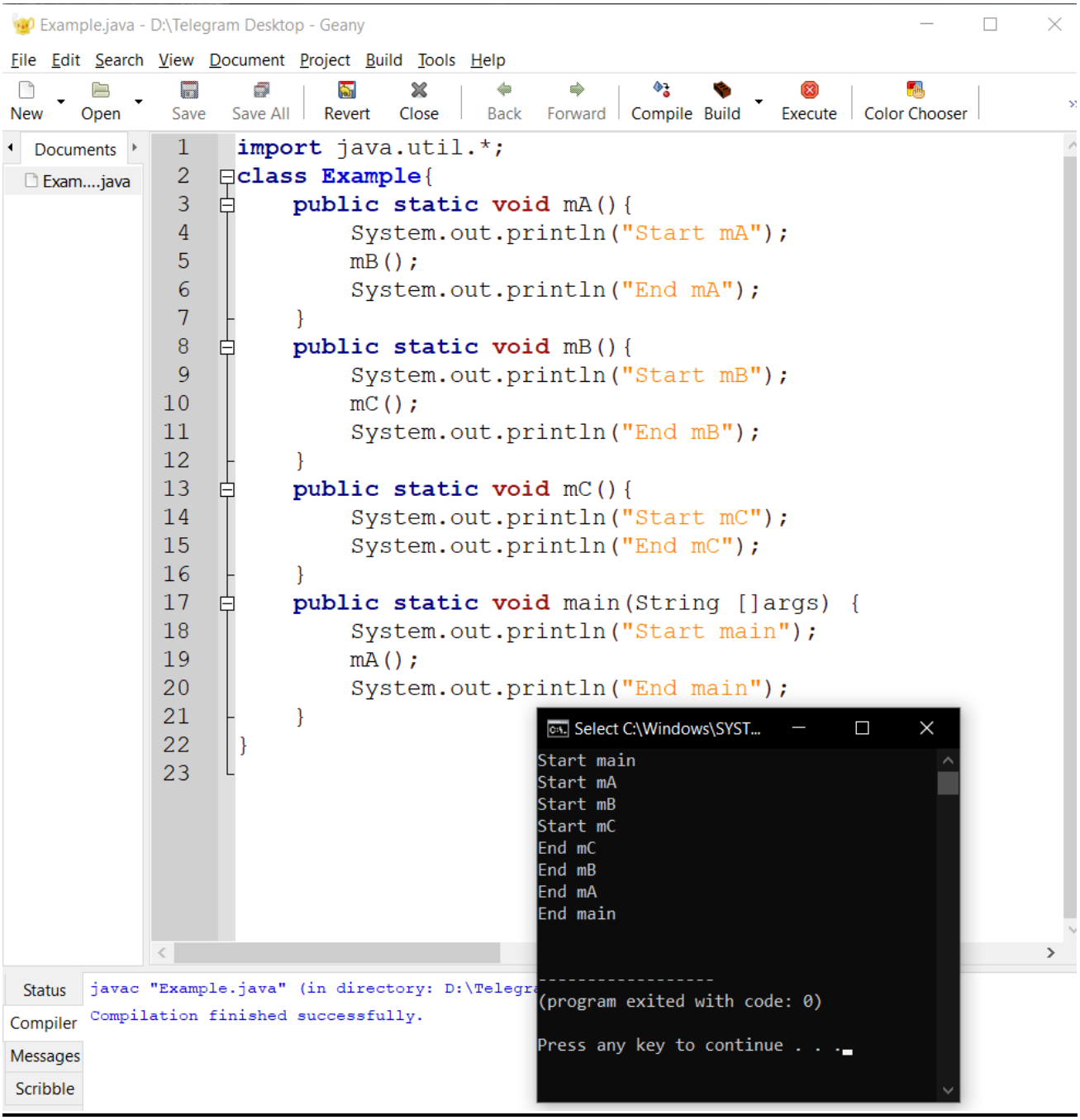
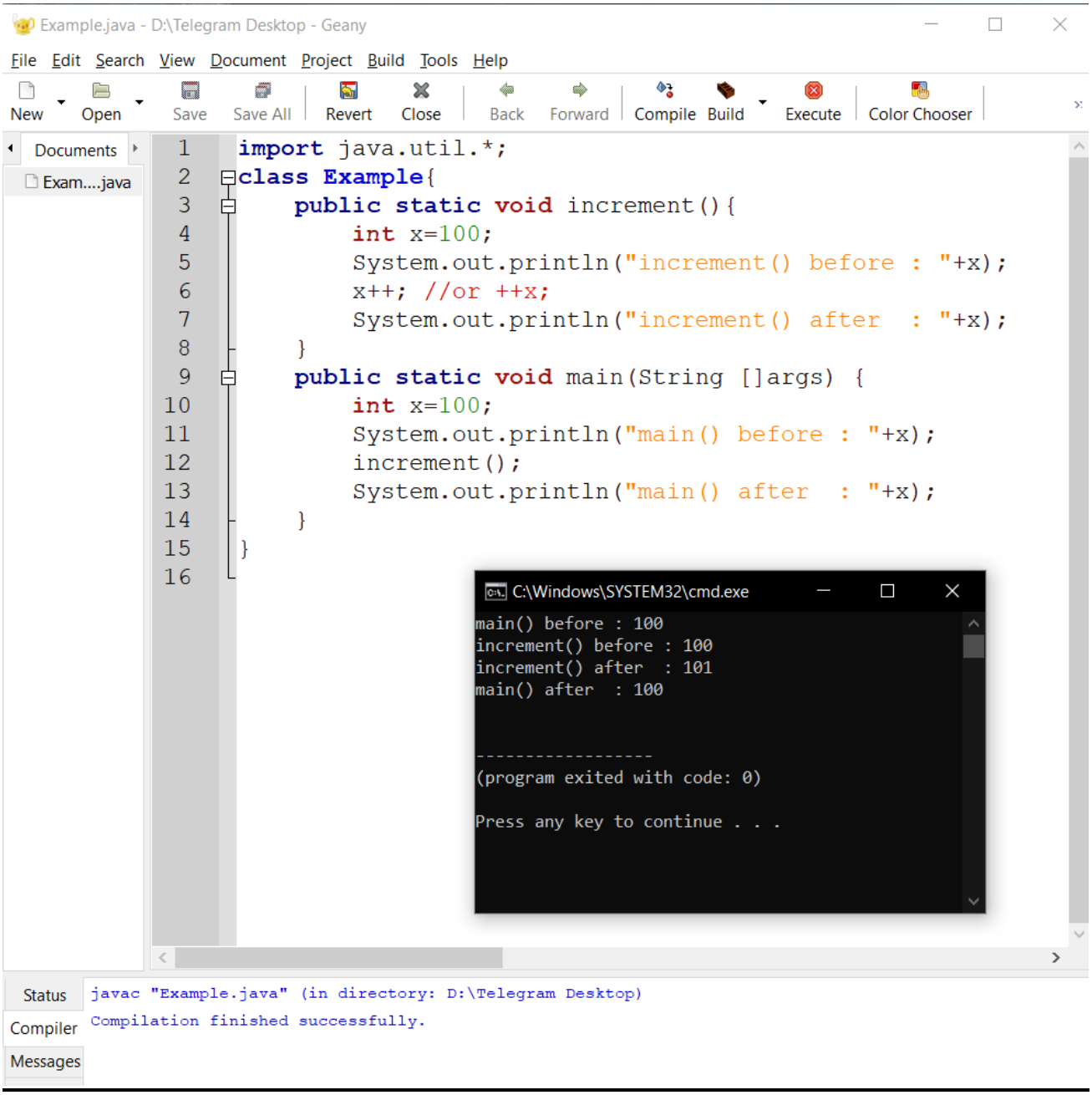
Q 1


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void myMethod(){
4 System.out.println("Start myMethod");
5 System.out.println("End myMethod");
6 }
7 public static void main(String []args) {
8 System.out.println("Start main");
9 myMethod();
10 System.out.println("End main");
11 }
12 }
13
C:\Windows\SYSTEM32\cmd.exe
Start main
Start myMethod
End myMethod
End main
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages

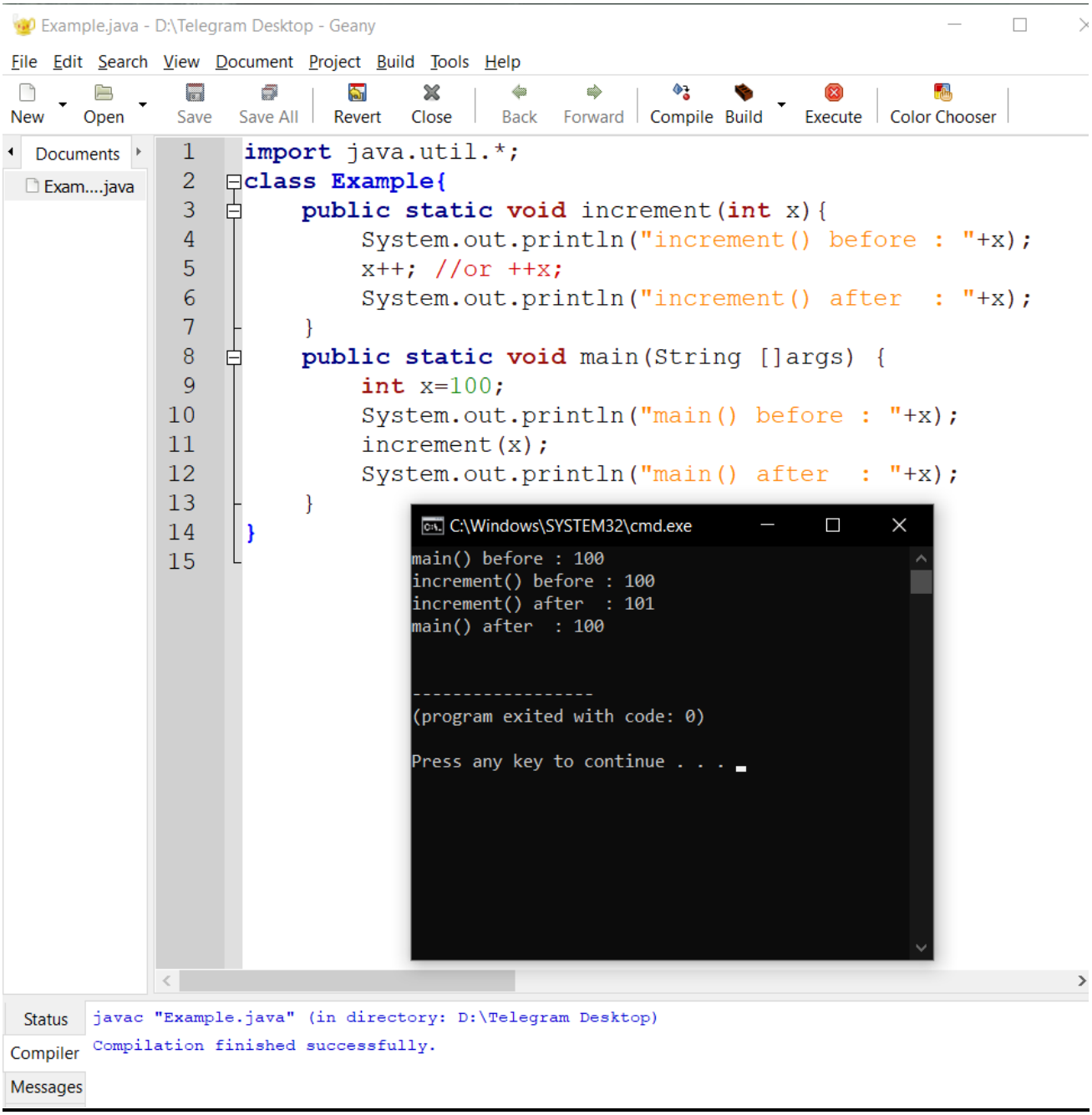
Q 2 – case i


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void mA(){
4 System.out.println("Start mA");
5 mB();
6 System.out.println("End mA");
7 }
8 public static void mB(){
9 System.out.println("Start mB");
10 mC();
11 System.out.println("End mB");
12 }
13 public static void mC(){
14 System.out.println("Start mC");
15 System.out.println("End mC");
16 }
17 public static void main(String []args) {
18 System.out.println("Start main");
19 mA();
20 System.out.println("End main");
21 }
22 }
23
Select C:\Windows\SYST...
Start main
Start mA
Start mB
Start mC
End mC
End mB
End mA
End main
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegr
Compilation finished successfully.

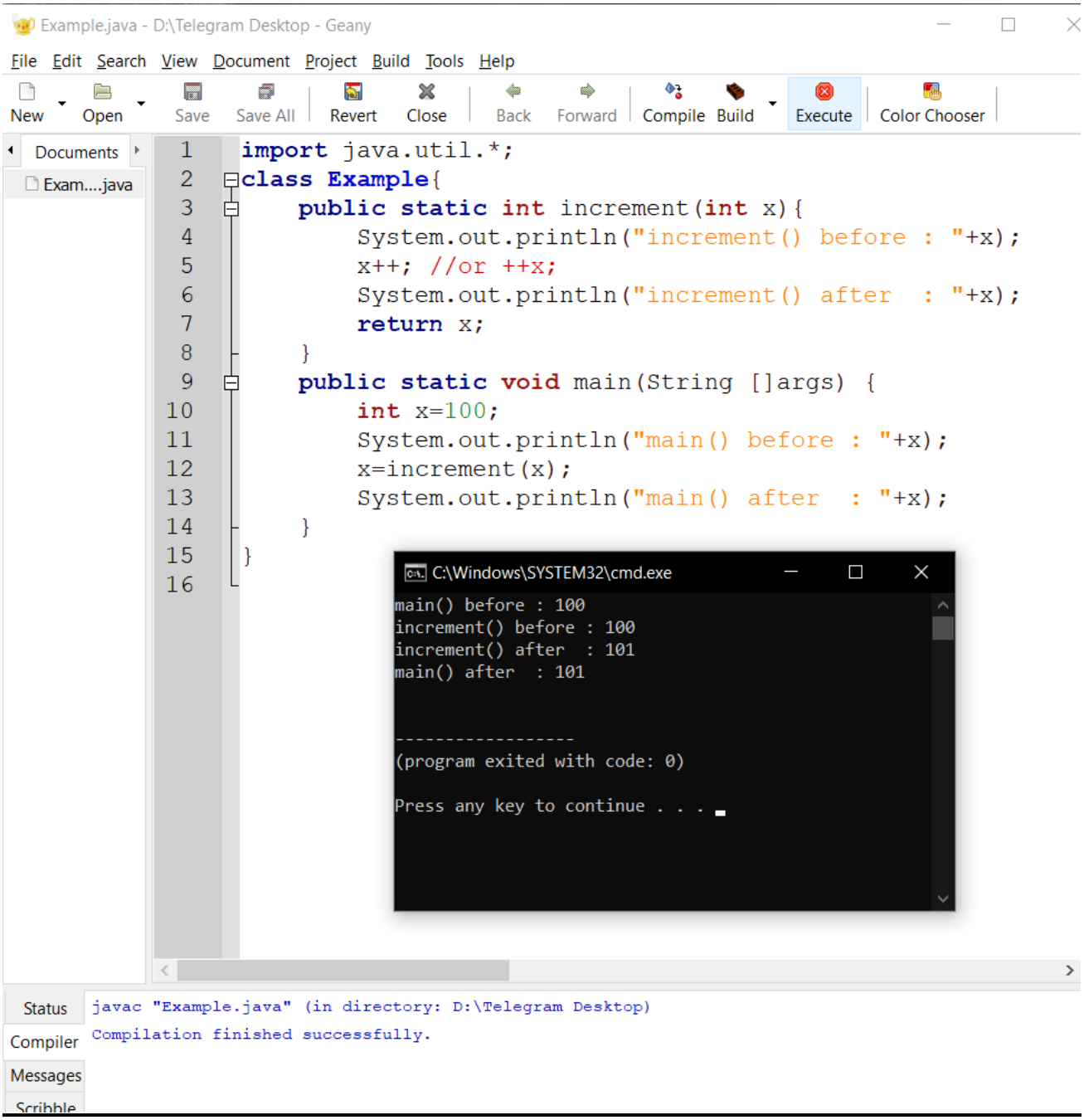
Q 3 – case ii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void increment(){
4 int x=100;
5 System.out.println("increment() before : "+x);
6 x++; //or ++x;
7 System.out.println("increment() after : "+x);
8 }
9 public static void main(String []args) {
10 int x=100;
11 System.out.println("main() before : "+x);
12 increment();
13 System.out.println("main() after : "+x);
14 }
15 }
16
C:\Windows\SYSTEM32\cmd.exe
main() before : 100
increment() before : 100
increment() after : 101
main() after : 100
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages

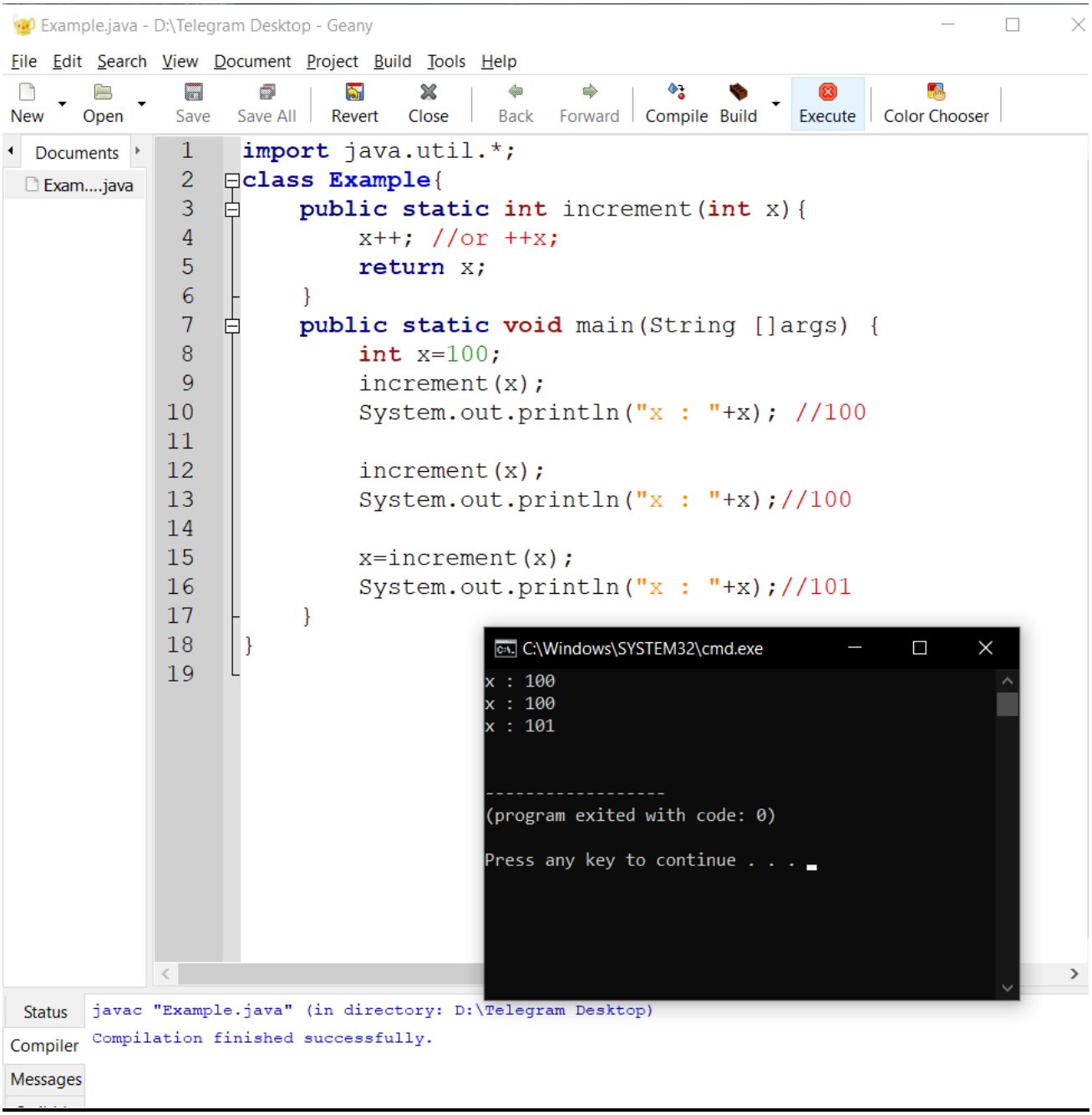
Q 4 – case iii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void increment(int x){
4 System.out.println("increment() before : "+x);
5 x++; //or ++x;
6 System.out.println("increment() after : "+x);
7 }
8 public static void main(String []args) {
9 int x=100;
10 System.out.println("main() before : "+x);
11 increment(x);
12 System.out.println("main() after : "+x);
13 }
14 }
15
C:\Windows\SYSTEM32\cmd.exe
main() before : 100
increment() before : 100
increment() after : 101
main() after : 100
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages

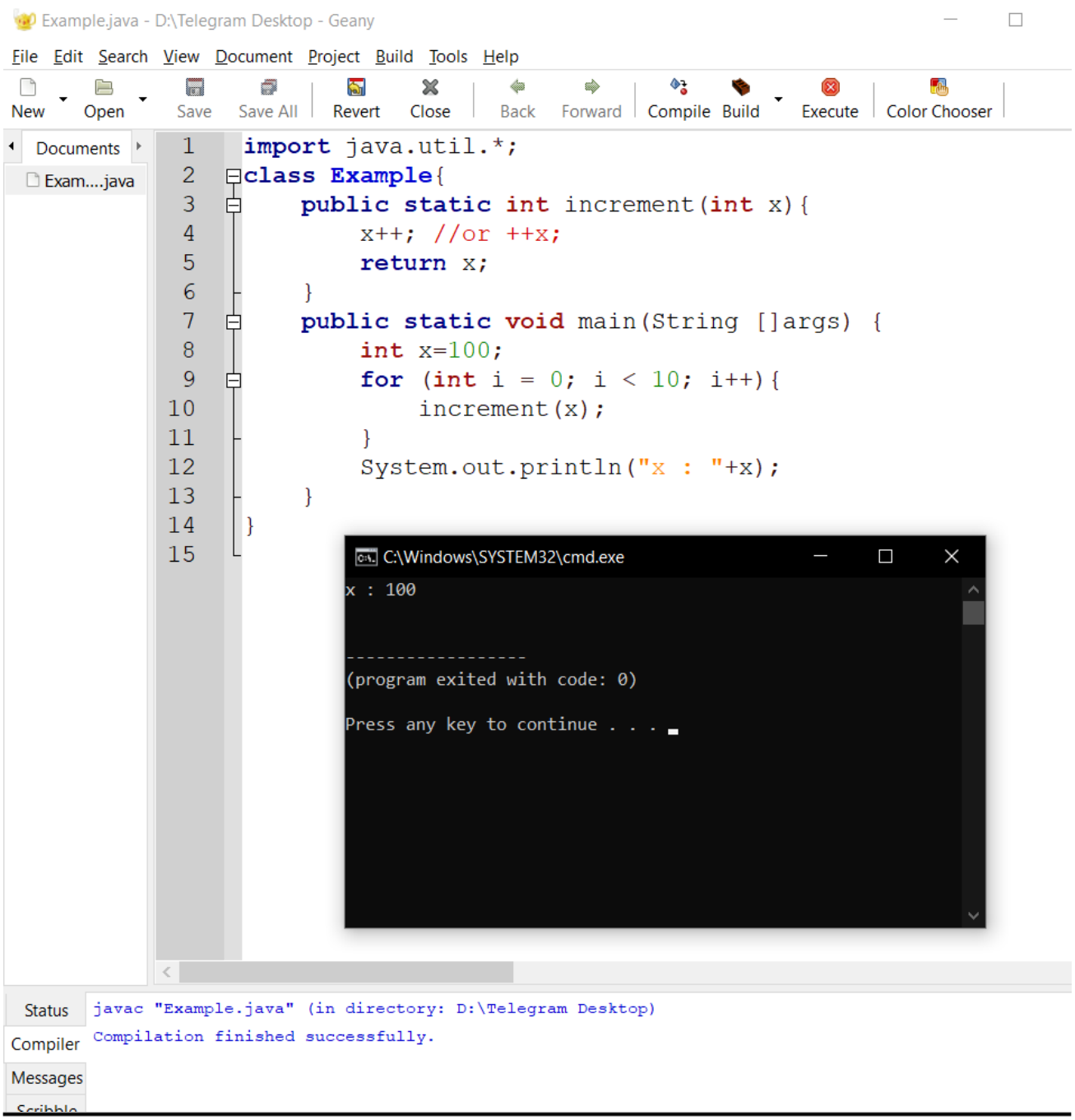
Q 5 - case iv


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 System.out.println("increment() before : "+x);
5 x++; //or ++x;
6 System.out.println("increment() after : "+x);
7 return x;
8 }
9 public static void main(String []args) {
10 int x=100;
11 System.out.println("main() before : "+x);
12 x=increment(x);
13 System.out.println("main() after : "+x);
14 }
15 }
16
C:\Windows\SYSTEM32\cmd.exe
main() before : 100
increment() before : 100
increment() after : 101
main() after : 101
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages
Scribble

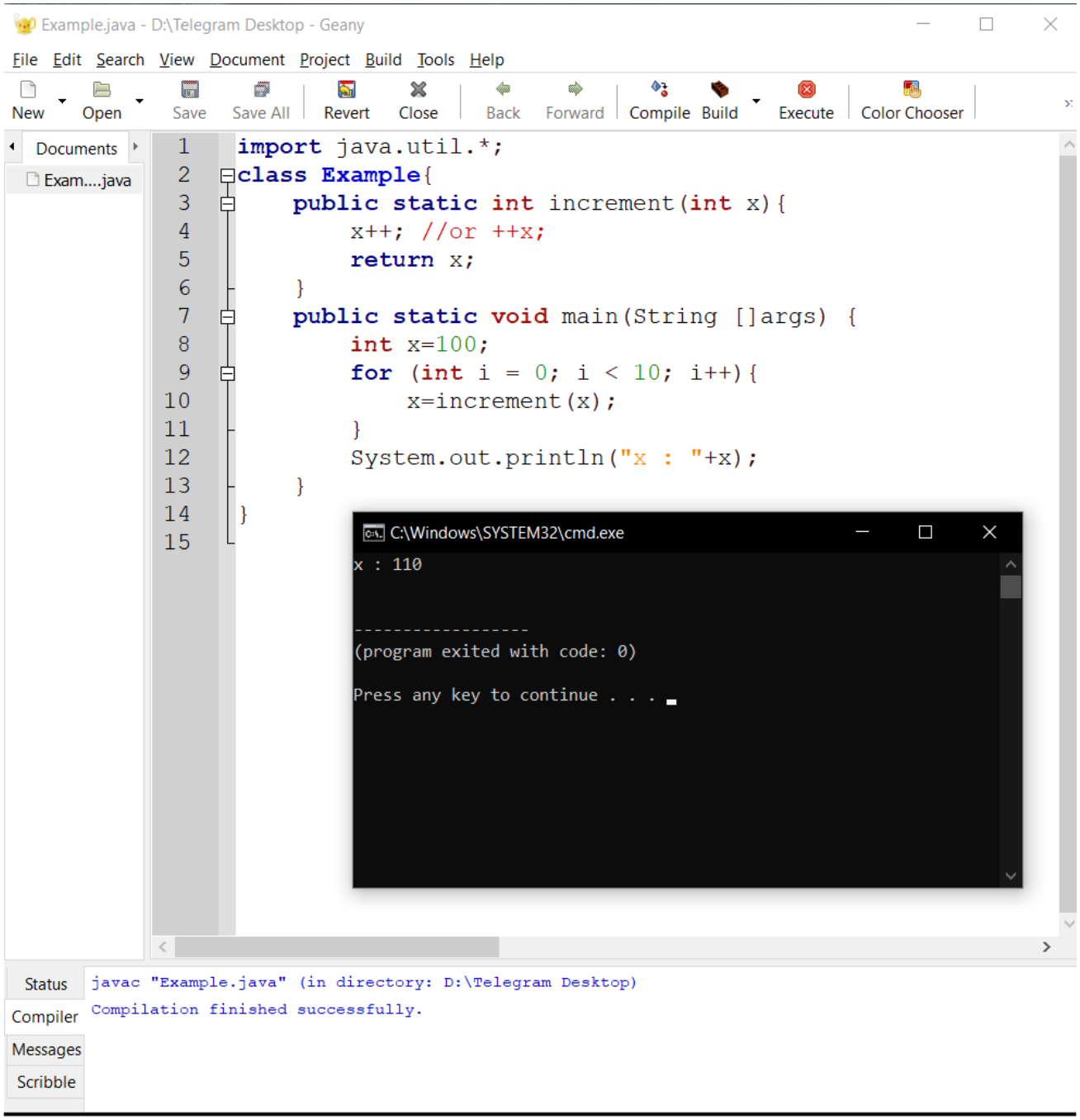
Q6 –


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 x++; //or ++x;
5 return x;
6 }
7 public static void main(String []args) {
8 int x=100;
9 increment(x);
10 System.out.println("x : "+x); //100
11
12 increment(x);
13 System.out.println("x : "+x);//100
14
15 x=increment(x);
16 System.out.println("x : "+x);//101
17 }
18 }
19
C:\Windows\SYSTEM32\cmd.exe
x : 100
x : 100
x : 101
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

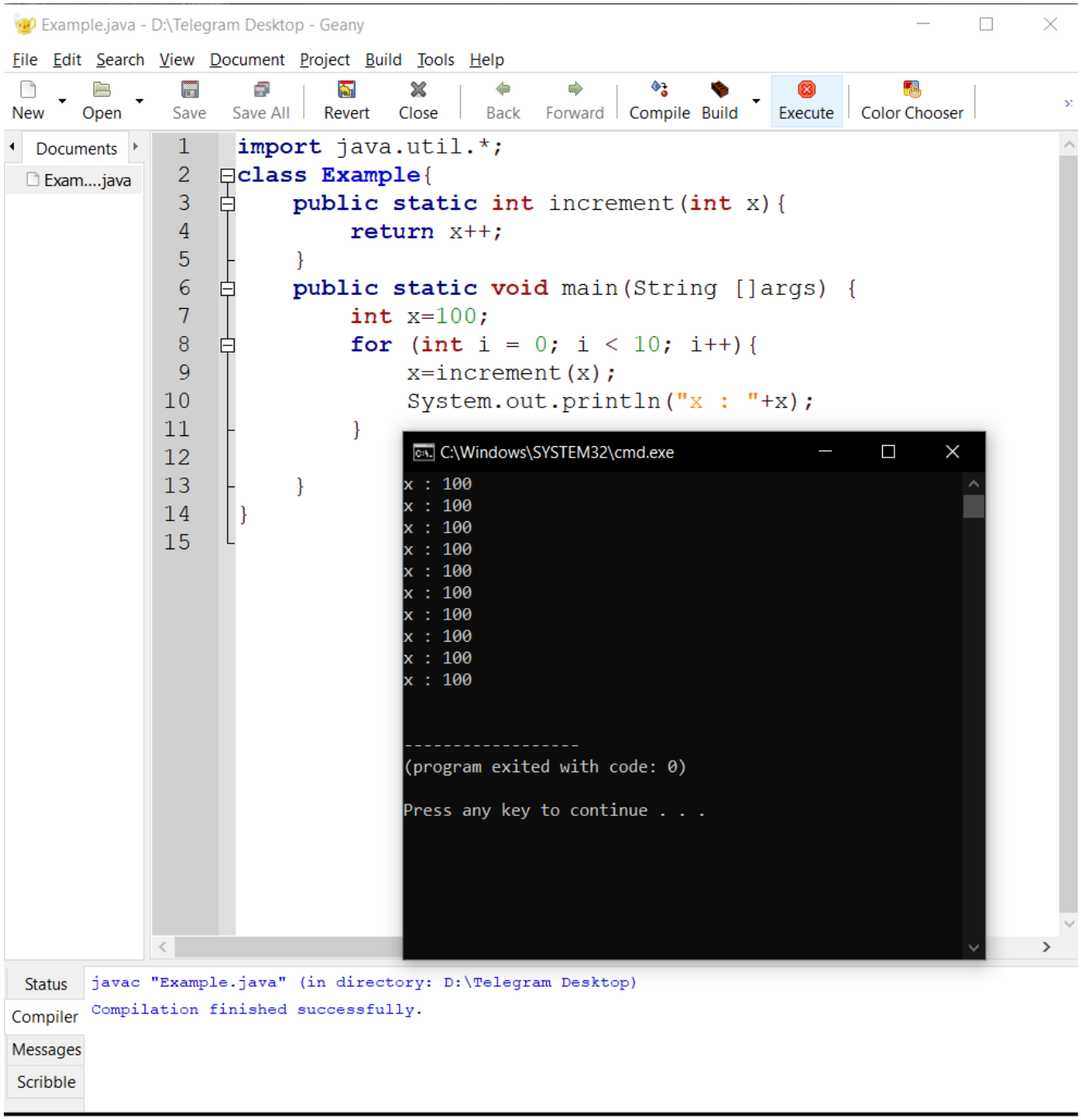
Q7


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 x++; //or ++x;
5 return x;
6 }
7 public static void main(String []args) {
8 int x=100;
9 for (int i = 0; i < 10; i++){
10 increment(x);
11 }
12 System.out.println("x : "+x);
13 }
14 }
15
C:\Windows\SYSTEM32\cmd.exe
x : 100
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages

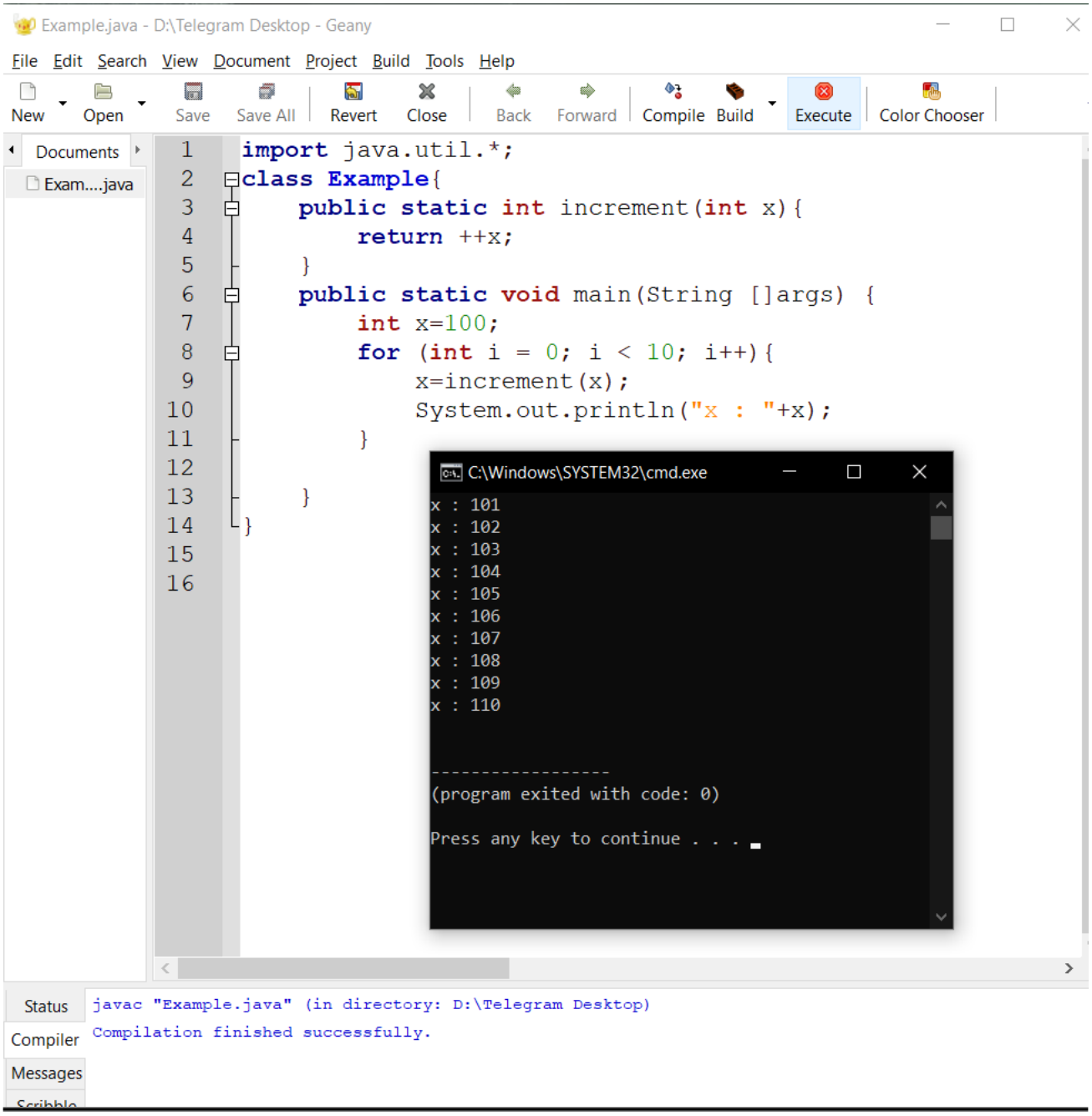
Q8


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 x++; //or ++x;
5 return x;
6 }
7 public static void main(String []args) {
8 int x=100;
9 for (int i = 0; i < 10; i++){
10 x=increment(x);
11 }
12 System.out.println("x : "+x);
13 }
14 }
15
C:\Windows\SYSTEM32\cmd.exe
x : 110
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

Q9

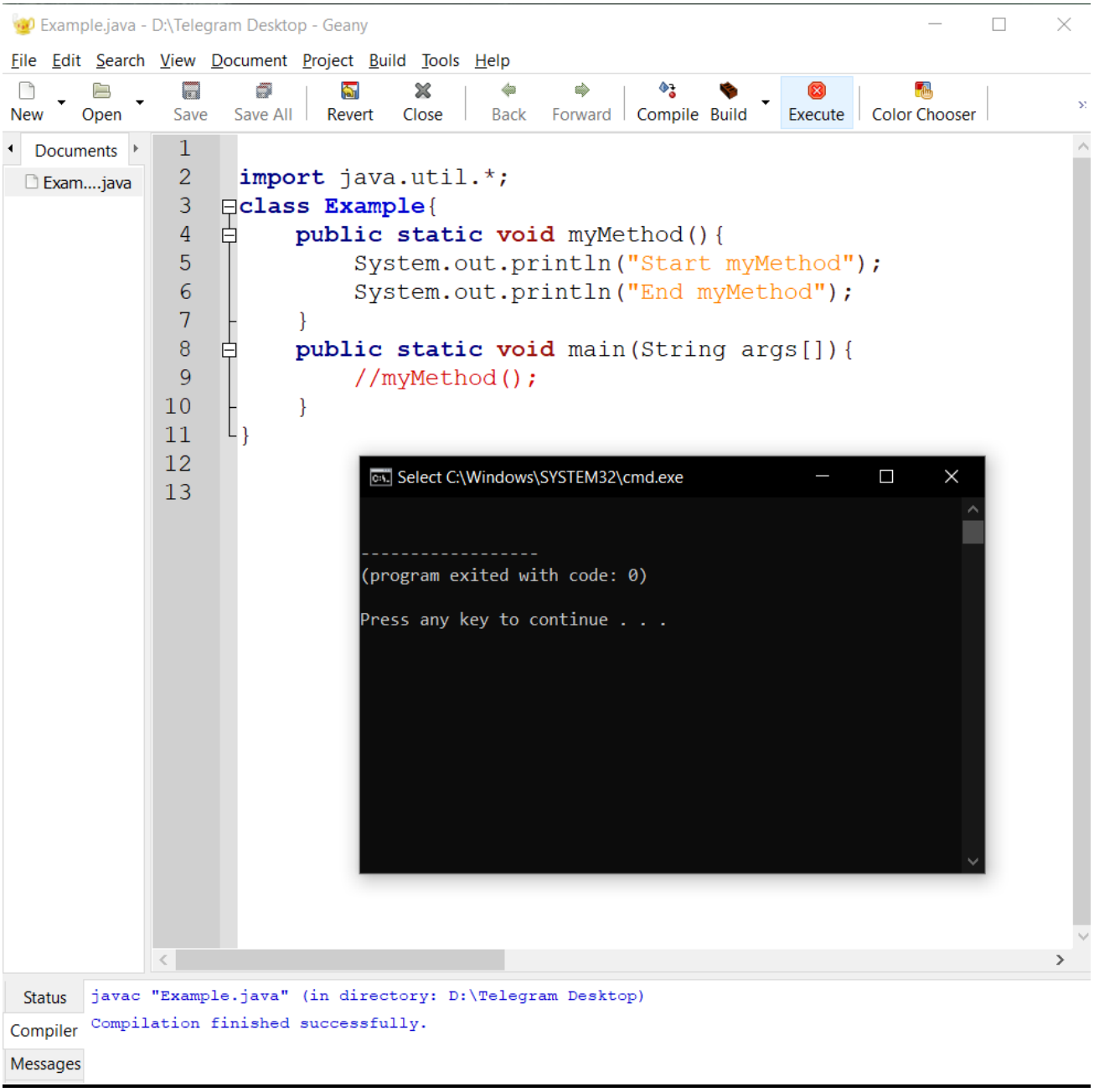

Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 return x++;
5 }
6 public static void main(String []args) {
7 int x=100;
8 for (int i = 0; i < 10; i++){
9 x=increment(x);
10 System.out.println("x : "+x);
11 }
12
13 }
14 }
15
C:\Windows\SYSTEM32\cmd.exe
x : 100
x : 100
x : 100
x : 100
x : 100
x : 100
x : 100
x : 100
x : 100
x : 100
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

Q10

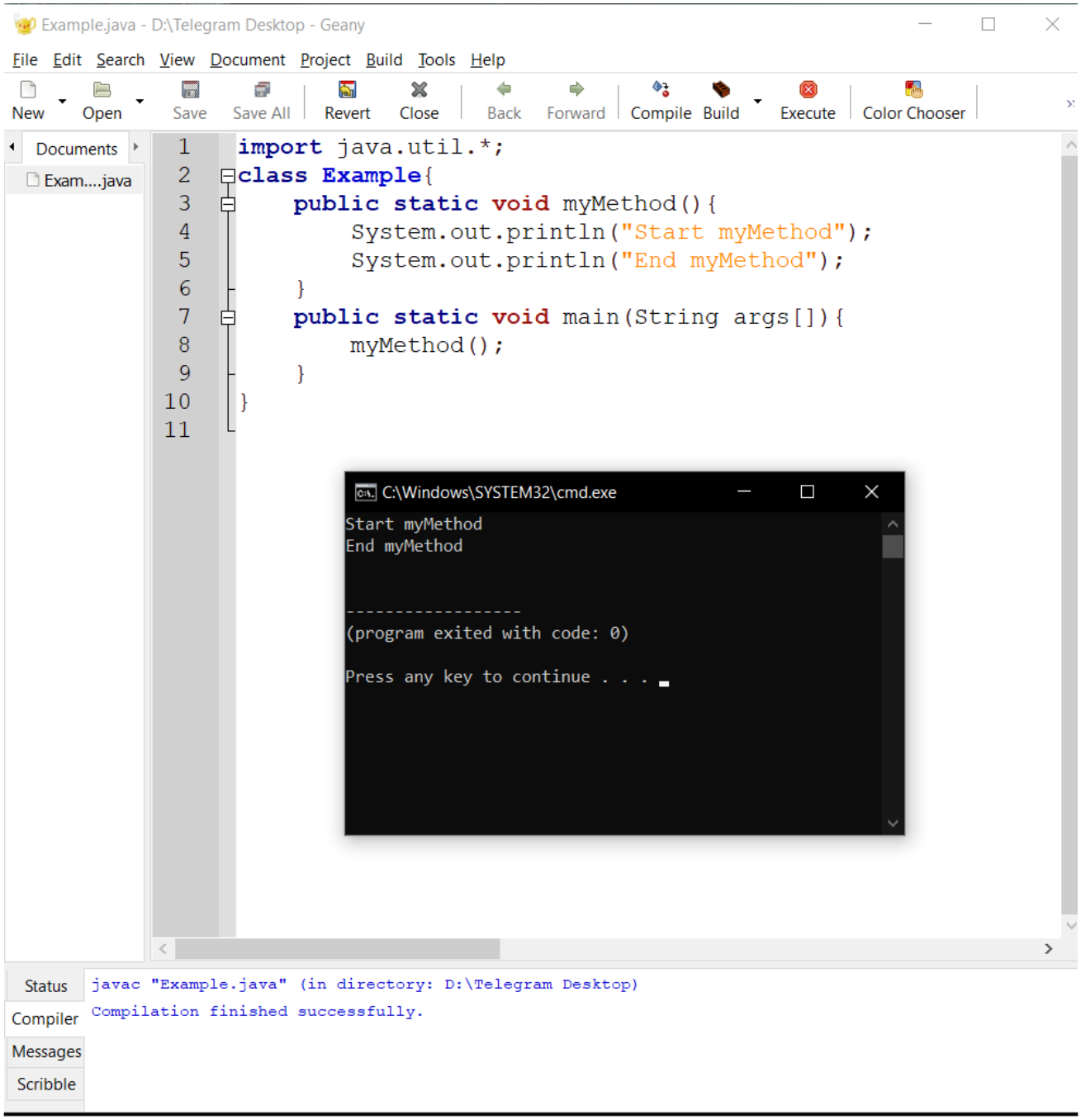

Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static int increment(int x){
4 return ++x;
5 }
6 public static void main(String []args) {
7 int x=100;
8 for (int i = 0; i < 10; i++){
9 x=increment(x);
10 System.out.println("x : "+x);
11 }
12
13 }
14 }
15
16
C:\Windows\SYSTEM32\cmd.exe
x : 101
x : 102
x : 103
x : 104
x : 105
x : 106
x : 107
x : 108
x : 109
x : 110
(program exited with code: 0)
Press any key to continue . . .
Status javac "Example.java" (in directory: D:\Telegram Desktop)
Compiler Compilation finished successfully.
Messages

Rules for method declarations

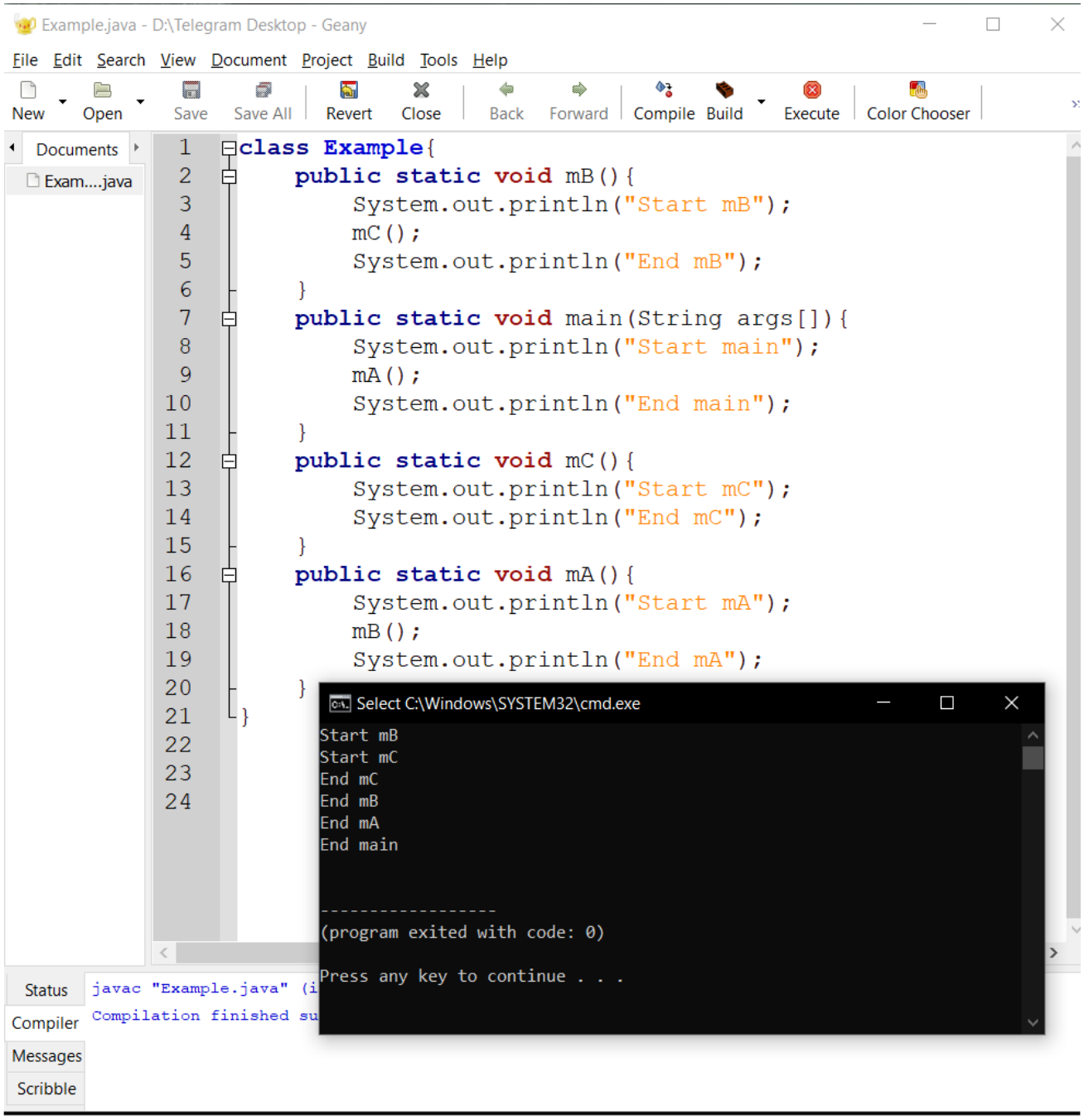
Q11 – case i



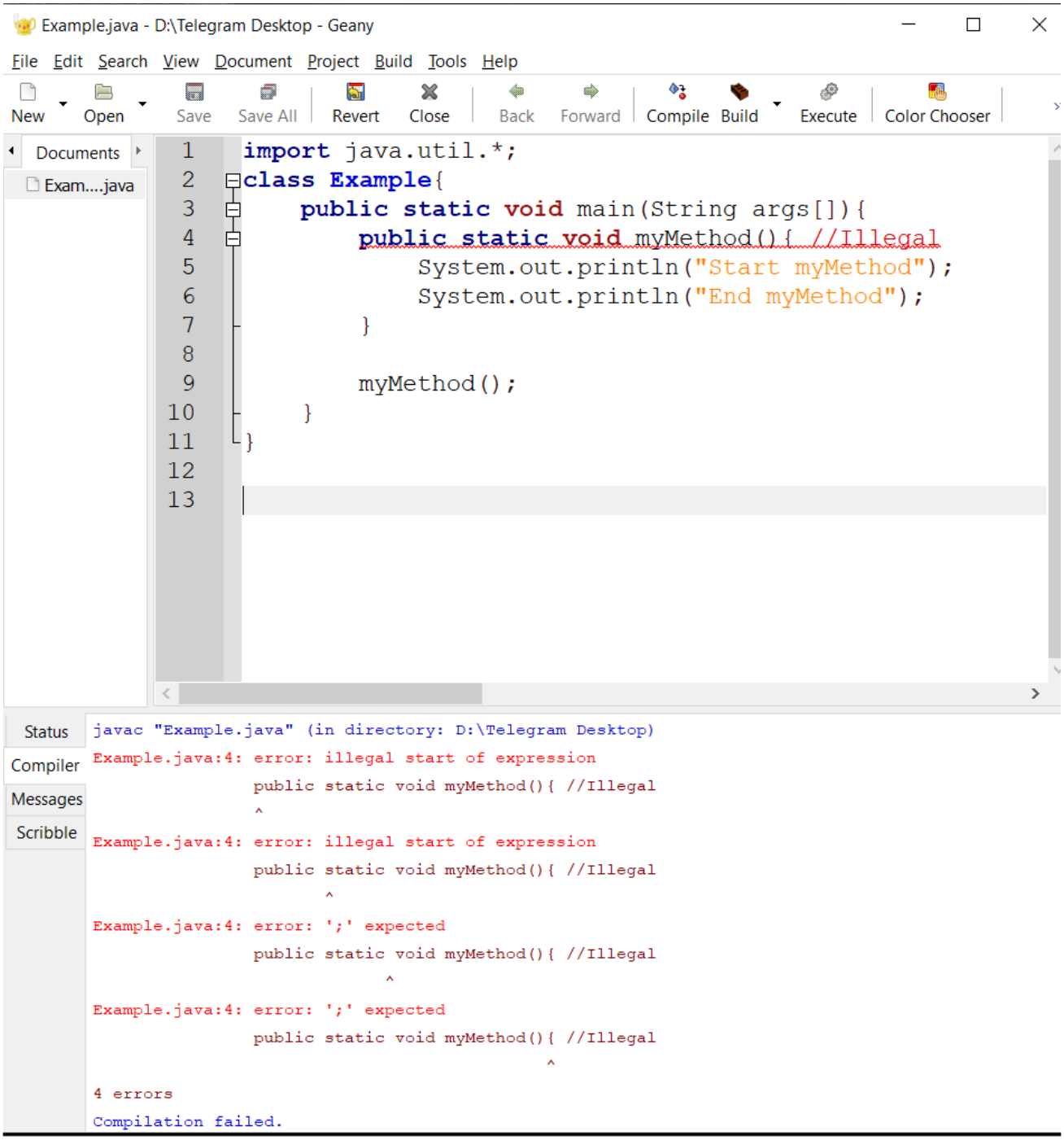
Q12 - case ii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void myMethod(){
4 System.out.println("Start myMethod");
5 System.out.println("End myMethod");
6 }
7 public static void main(String args[]){
8 myMethod();
9 }
10 }
11
C:\Windows\SYSTEM32\cmd.exe
Start myMethod
End myMethod
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

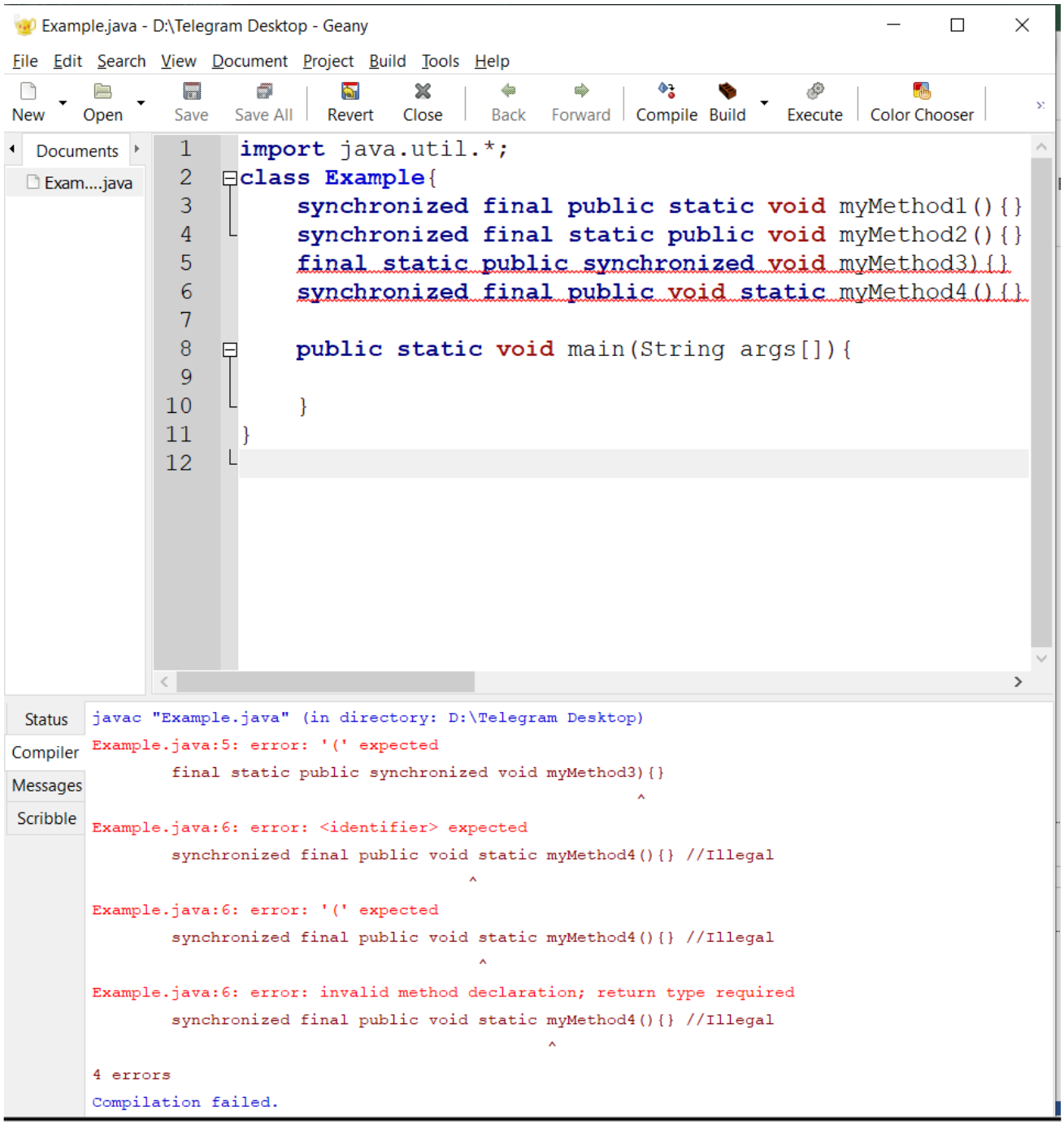
Q13 – case iii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
class Example{
public static void mB(){
System.out.println("Start mB");
mC();
System.out.println("End mB");
}
public static void main(String args[]){
System.out.println("Start main");
mA();
System.out.println("End main");
}
public static void mC(){
System.out.println("Start mC");
System.out.println("End mC");
}
public static void mA(){
System.out.println("Start mA");
mB();
System.out.println("End mA");
}
}
Select C:\Windows\SYSTEM32\cmd.exe
Start mB
Start mC
End mC
End mB
End mA
End main
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (i
Compilation finished su

Q14 – case iv


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 public static void main(String args[]){
4 public static void myMethod(){ //Illegal
5 System.out.println("Start myMethod");
6 System.out.println("End myMethod");
7 }
8
9 myMethod();
10 }
11 }
12
13
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:4: error: illegal start of expression
public static void myMethod(){ //Illegal
^
Example.java:4: error: illegal start of expression
public static void myMethod(){ //Illegal
^
Example.java:4: error: ';' expected
public static void myMethod(){ //Illegal
^
Example.java:4: error: ';' expected
public static void myMethod(){ //Illegal
^
4 errors
Compilation failed.

Q15 – case v


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 import java.util.*;
2 class Example{
3 synchronized final public static void myMethod1(){}
4 synchronized final static public void myMethod2(){}
5 final static public synchronized void myMethod3){}
6 synchronized final public void static myMethod4(){}
7
8 public static void main(String args[]){
9
10 }
11 }
12
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:5: error: '(' expected
final static public synchronized void myMethod3){}
^
Example.java:6: error: <identifier> expected
synchronized final public void static myMethod4(){} //Illegal
^
Example.java:6: error: '(' expected
synchronized final public void static myMethod4(){} //Illegal
^
Example.java:6: error: invalid method declaration; return type required
synchronized final public void static myMethod4(){} //Illegal
^
4 errors
Compilation failed.

Q 16 – case vi

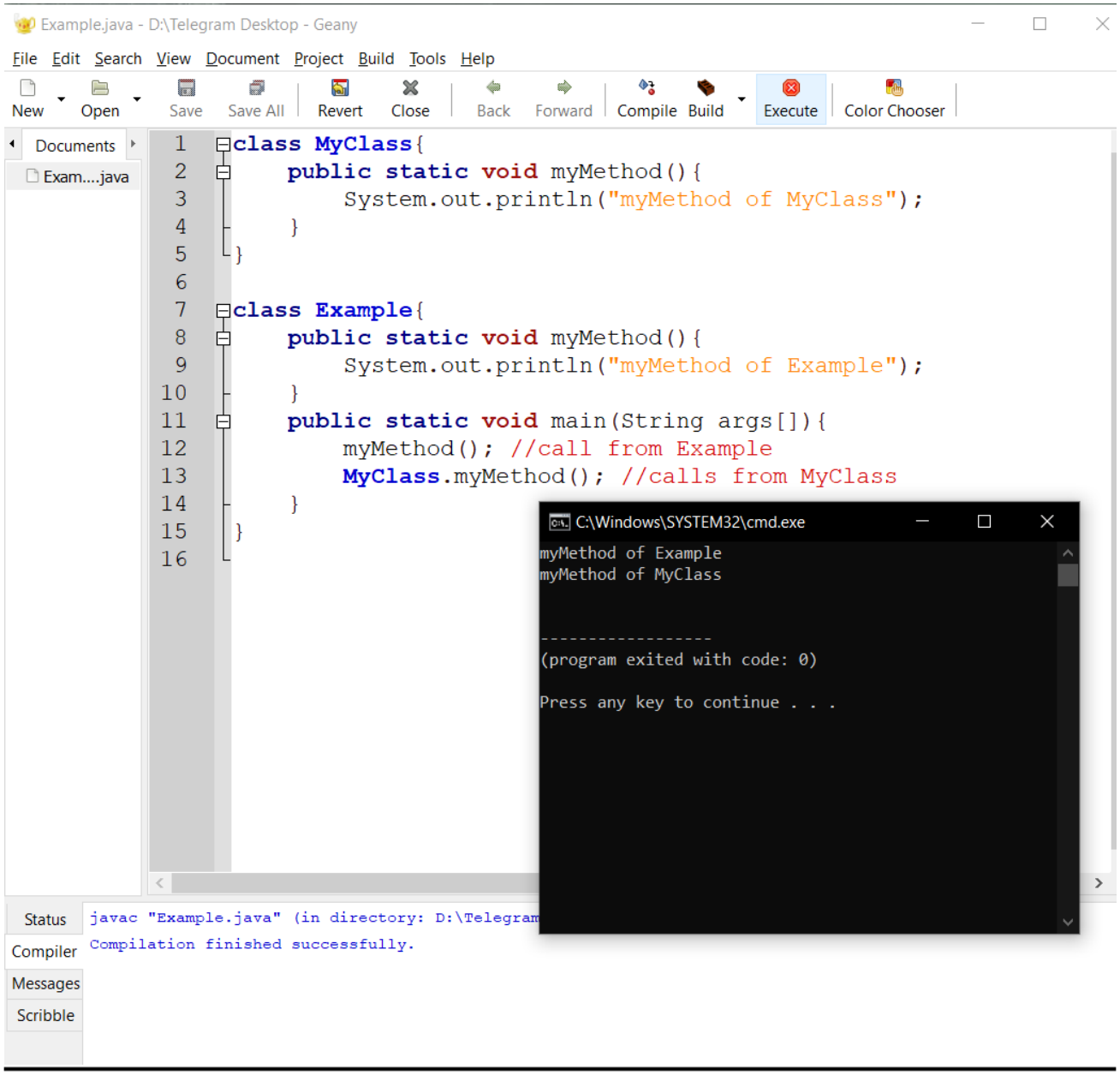
//—----------MyClass.java—----------//

```
class MyClass{
	public static void myMethod(){
		System.out.println("myMethod of MyClass");
	}
}
```

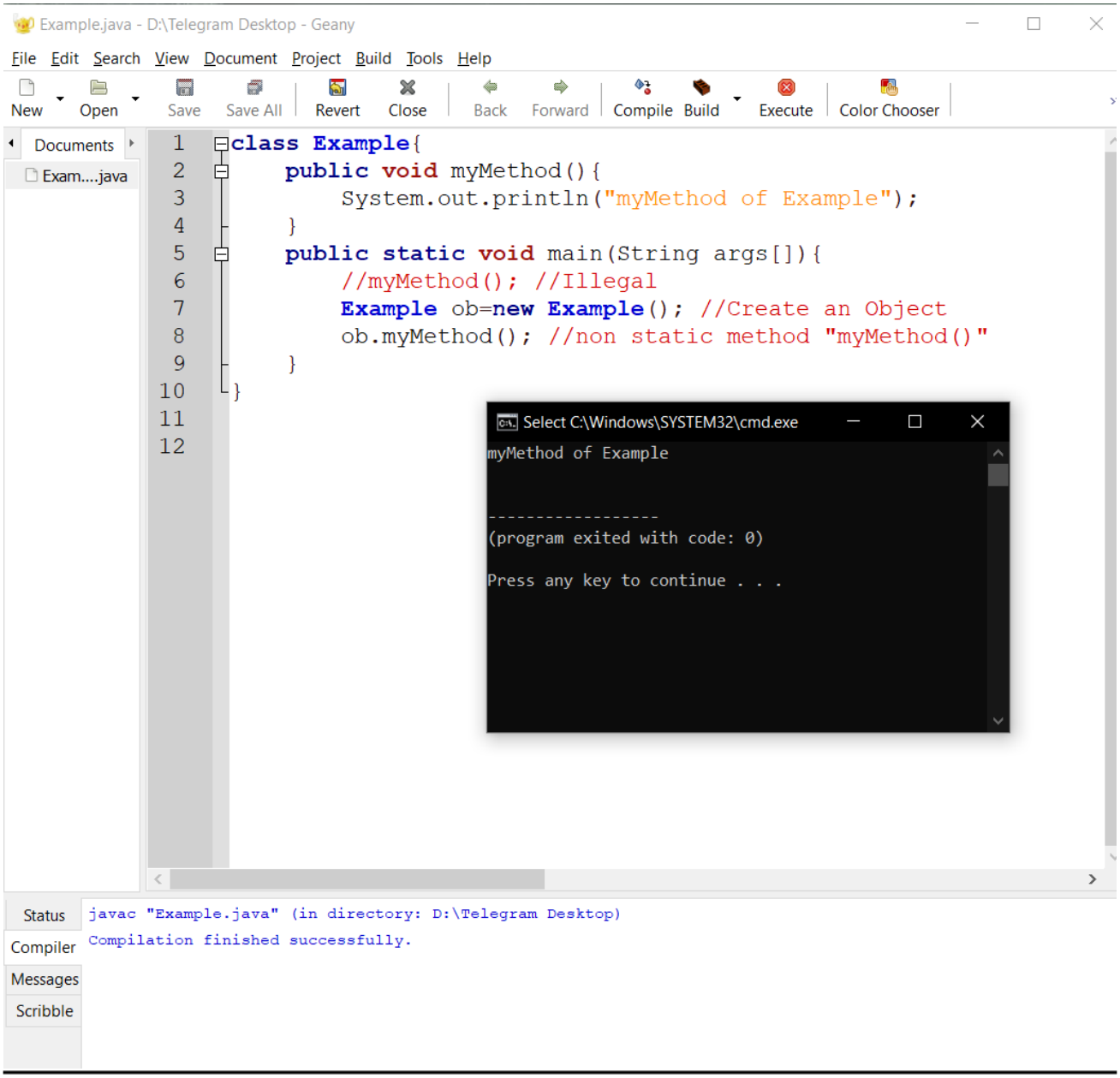
//—----------Example.java—----------//

```
class Example{
	public static void main(String args[]){
		//myMethod();
		MyClass.myMethod();
	}
}
```

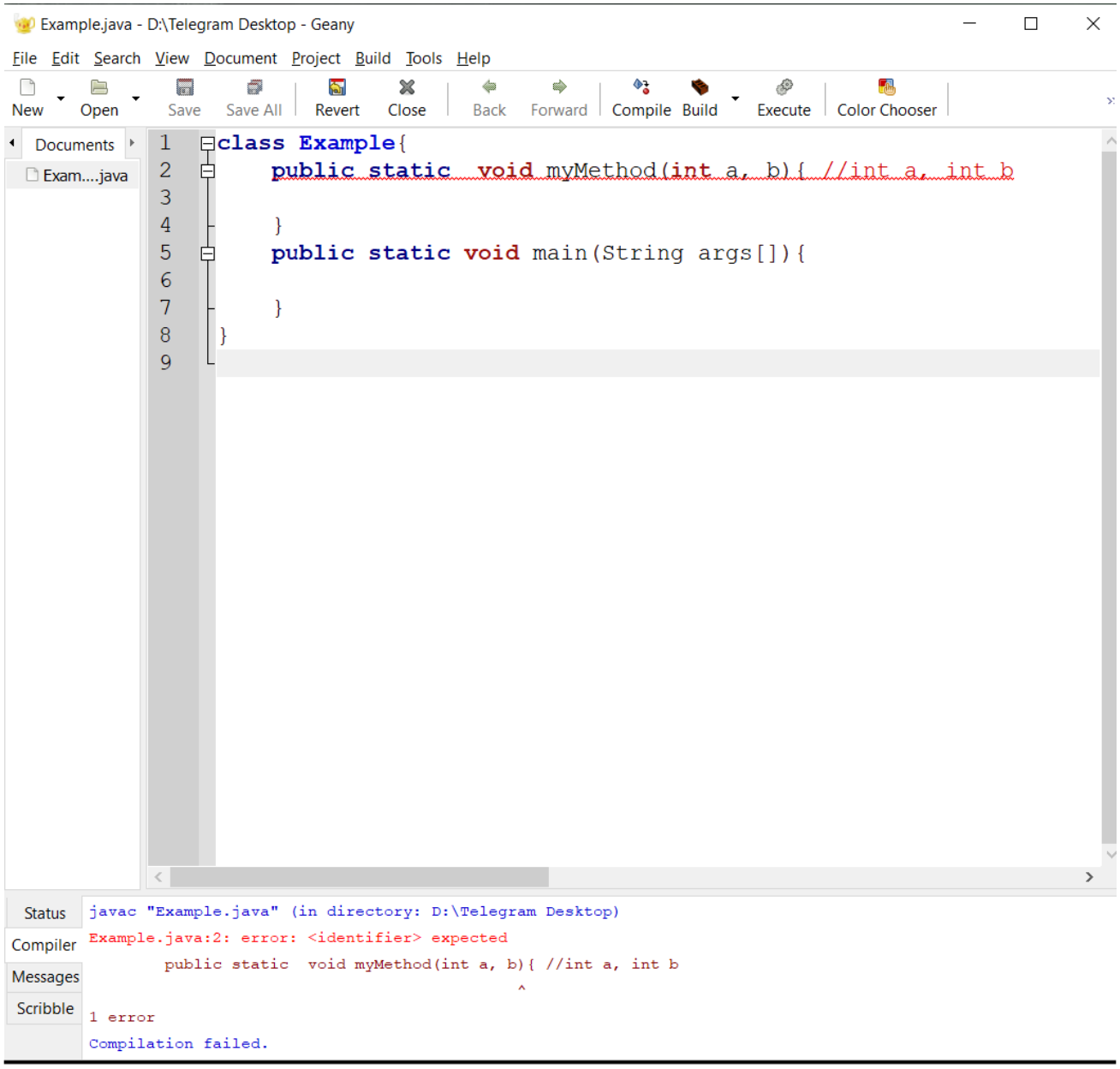
Q17 – case vii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class MyClass{
2 public static void myMethod(){
3 System.out.println("myMethod of MyClass");
4 }
5 }
6
7 class Example{
8 public static void myMethod(){
9 System.out.println("myMethod of Example");
10 }
11 public static void main(String args[]){
12 myMethod(); //call from Example
13 MyClass.myMethod(); //calls from MyClass
14 }
15 }
16
C:\Windows\SYSTEM32\cmd.exe
myMethod of Example
myMethod of MyClass
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram
Compilation finished successfully.

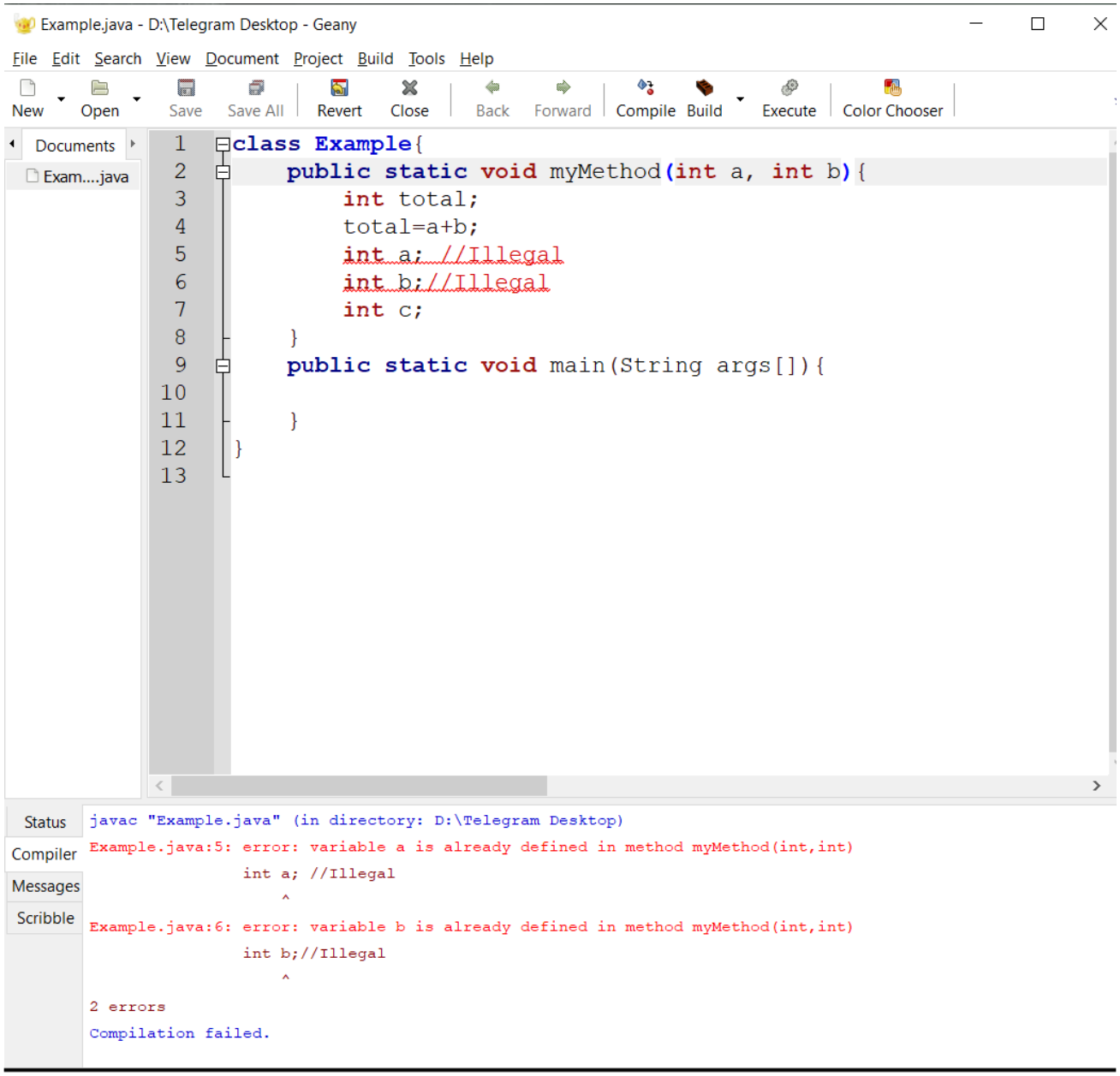
Q18 – case viii



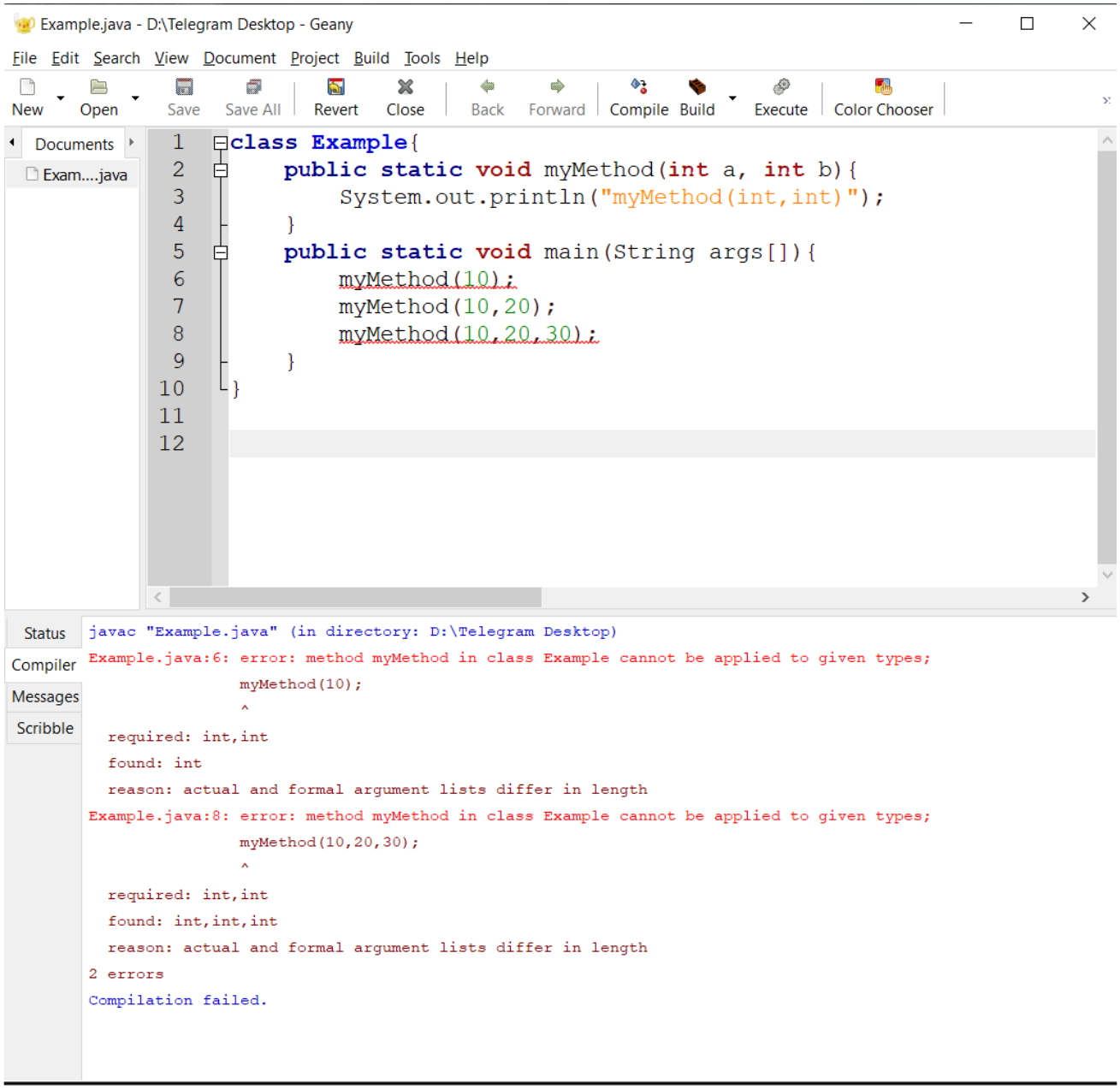
Q19 – case ixx


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int a, b){ //int a, int b
3
4 }
5 public static void main(String args[]){
6
7 }
8 }
9
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:2: error: <identifier> expected
public static void myMethod(int a, b){ //int a, int b
^
1 error
Compilation failed.

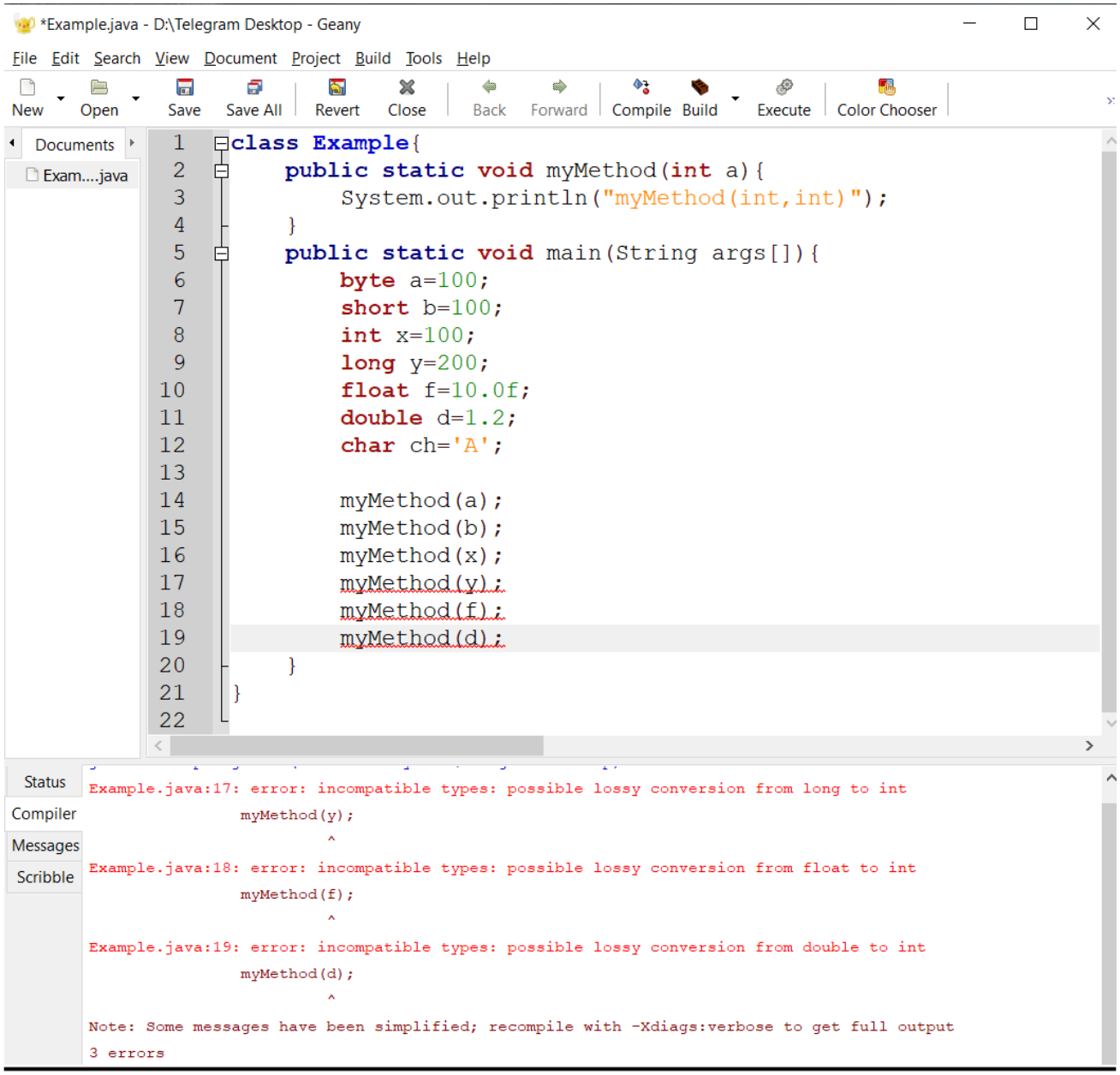
Q20 – case xx


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int a, int b){
3 int total;
4 total=a+b;
5 int a; //Illegal
6 int b;//Illegal
7 int c;
8 }
9 public static void main(String args[]){
10
11 }
12 }
13
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:5: error: variable a is already defined in method myMethod(int,int)
int a; //Illegal
^
Example.java:6: error: variable b is already defined in method myMethod(int,int)
int b;//Illegal
^
2 errors
Compilation failed.

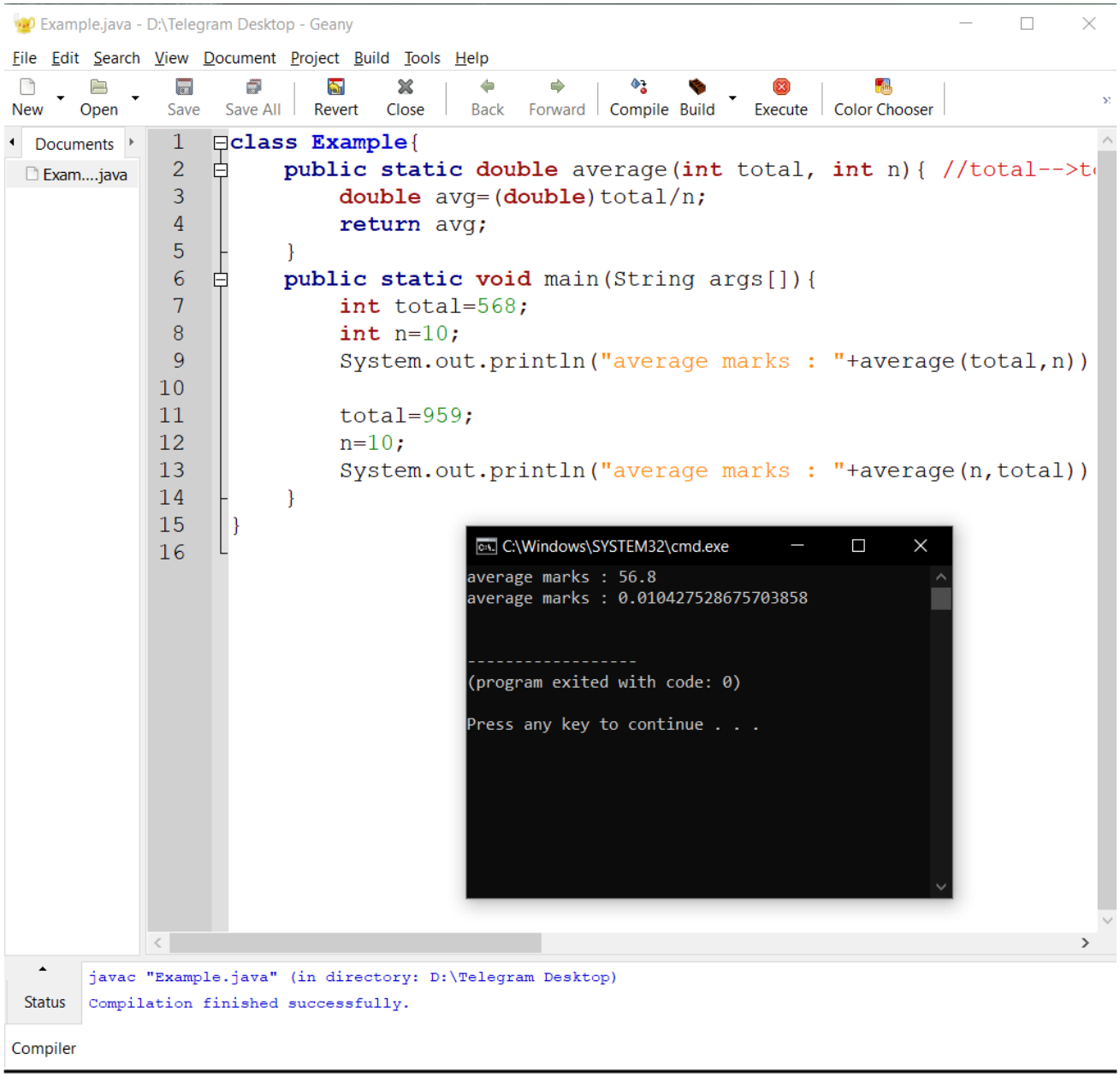
Q21 – case xxi


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int a, int b){
3 System.out.println("myMethod(int,int)");
4 }
5 public static void main(String args[]){
6 myMethod(10);
7 myMethod(10,20);
8 myMethod(10,20,30);
9 }
10 }
11
12
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:6: error: method myMethod in class Example cannot be applied to given types;
myMethod(10);
^
required: int,int
found: int
reason: actual and formal argument lists differ in length
Example.java:8: error: method myMethod in class Example cannot be applied to given types;
myMethod(10,20,30);
^
required: int,int
found: int,int,int
reason: actual and formal argument lists differ in length
2 errors
Compilation failed.

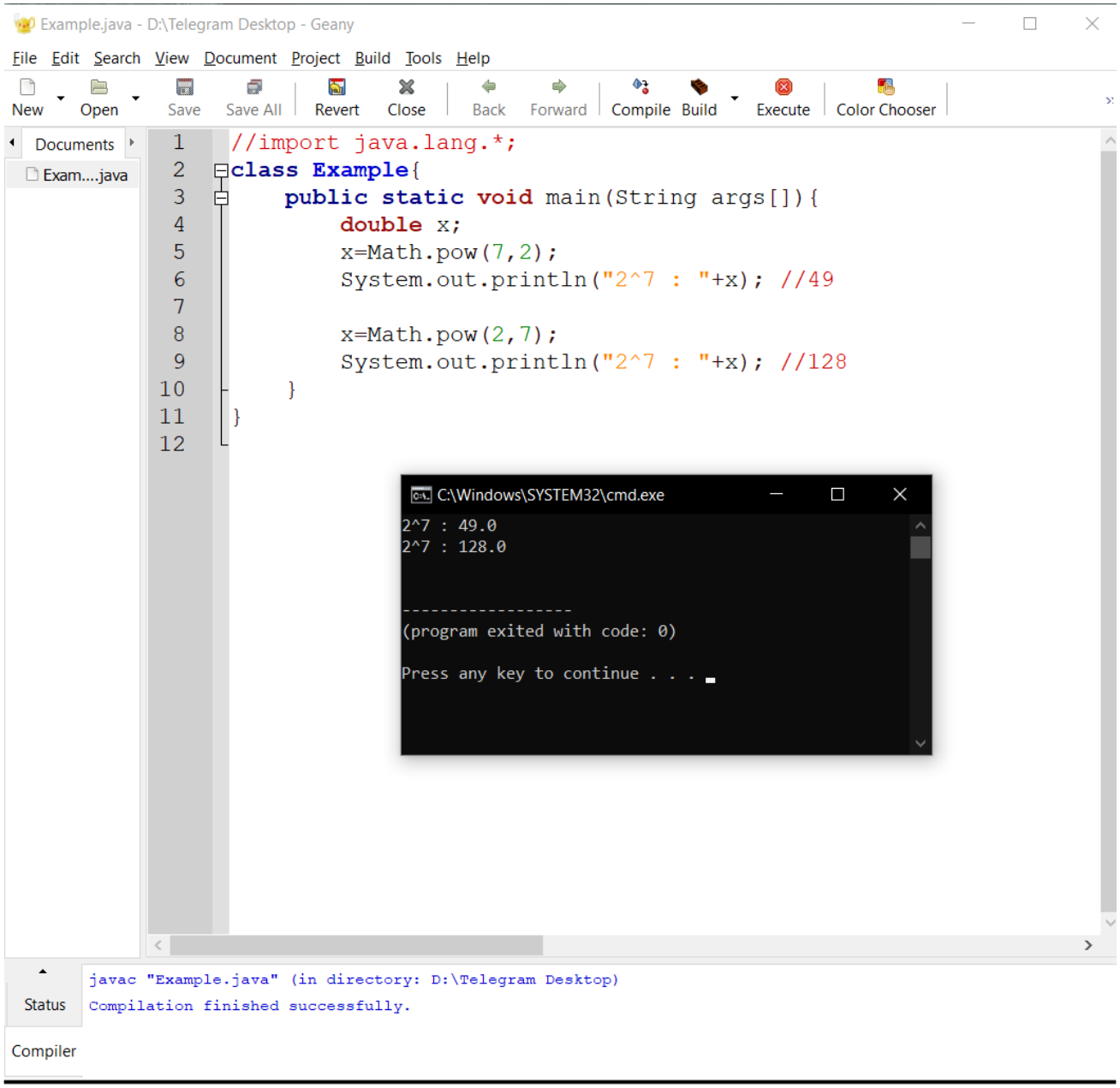
Q22 – case xxii



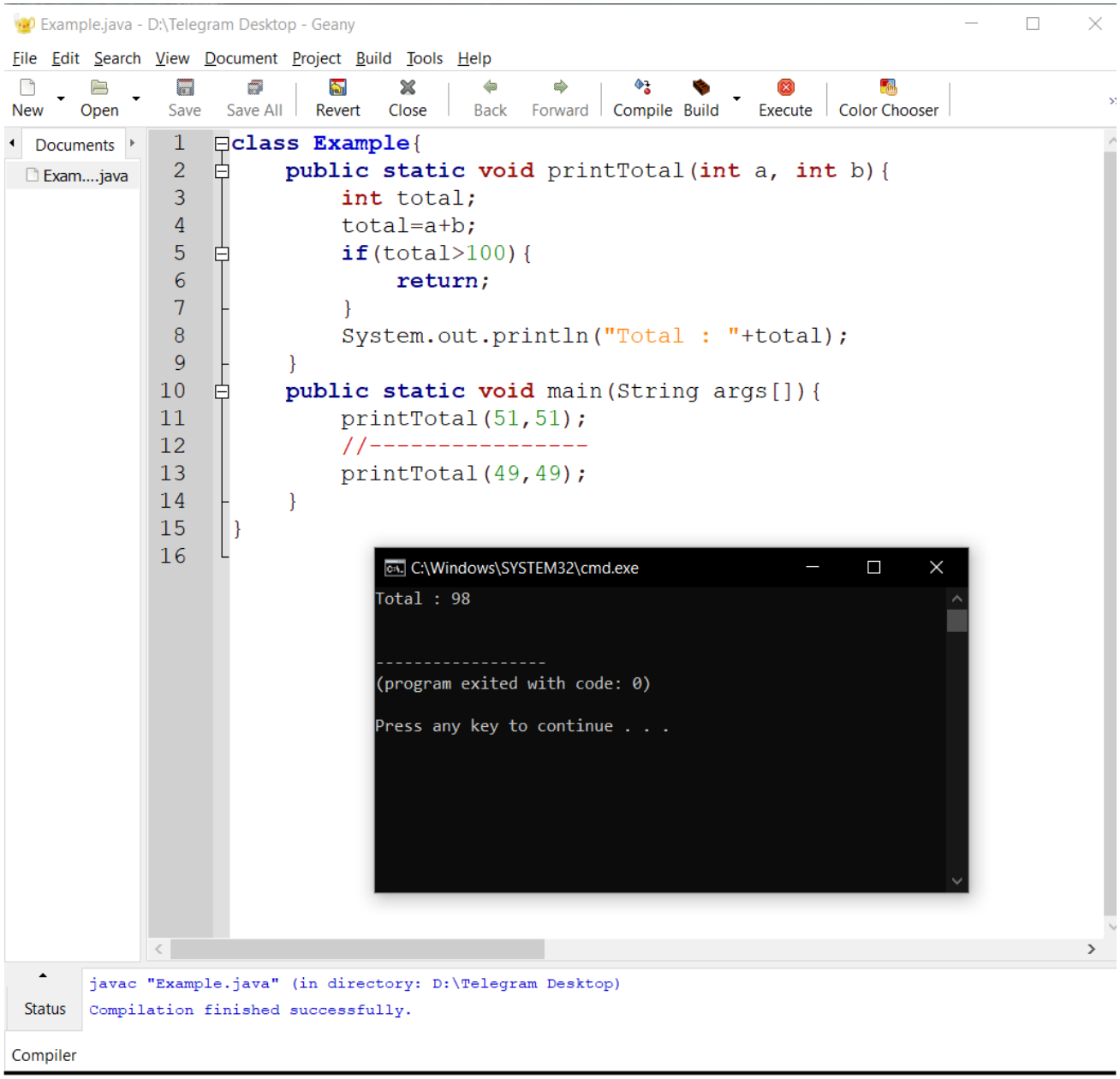
Q23 – case xxiii



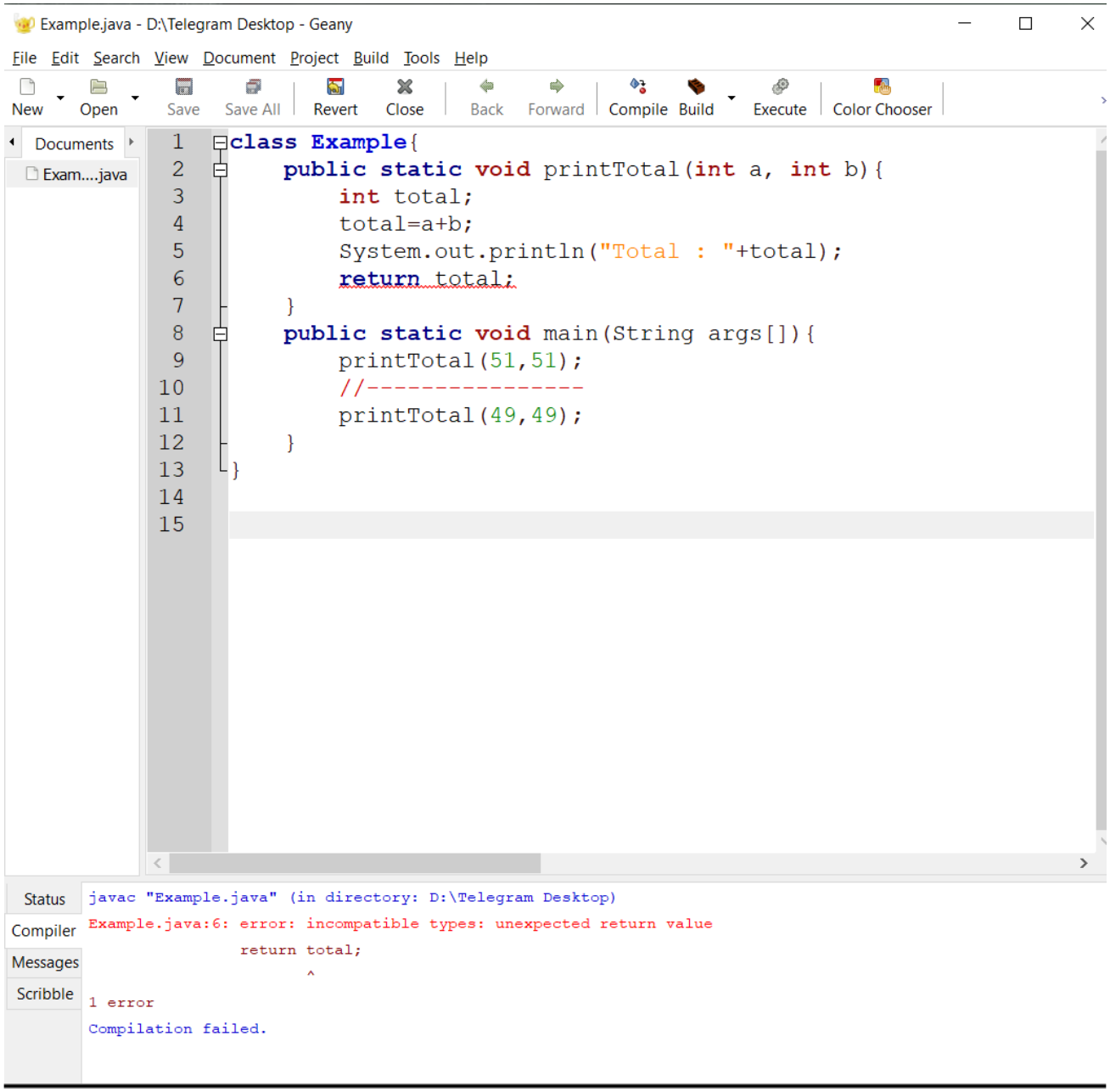
Q24


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 //import java.lang.*;
2 class Example{
3 public static void main(String args[]){
4 double x;
5 x=Math.pow(7,2);
6 System.out.println("2^7 : "+x); //49
7
8 x=Math.pow(2,7);
9 System.out.println("2^7 : "+x); //128
10 }
11 }
12
C:\Windows\SYSTEM32\cmd.exe
2^7 : 49.0
2^7 : 128.0
(program exited with code: 0)
Press any key to continue . . .
Status
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
Compiler

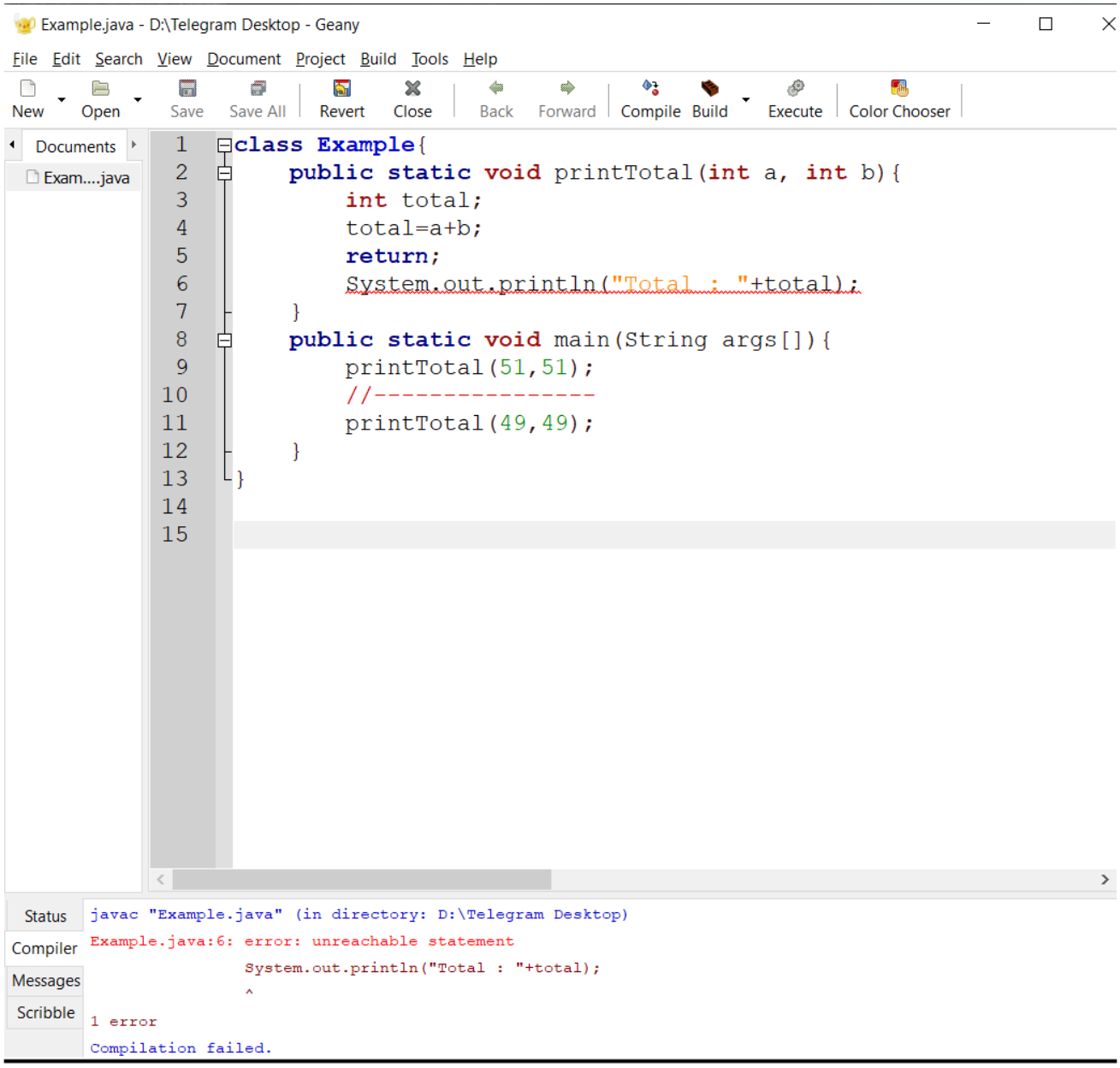
Q25 – case xiv


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void printTotal(int a, int b){
3 int total;
4 total=a+b;
5 if(total>100){
6 return;
7 }
8 System.out.println("Total : "+total);
9 }
10 public static void main(String args[]){
11 printTotal(51,51);
12 //----------------
13 printTotal(49,49);
14 }
15 }
16
C:\Windows\SYSTEM32\cmd.exe
Total : 98
(program exited with code: 0)
Press any key to continue . . .
Status
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
Compiler

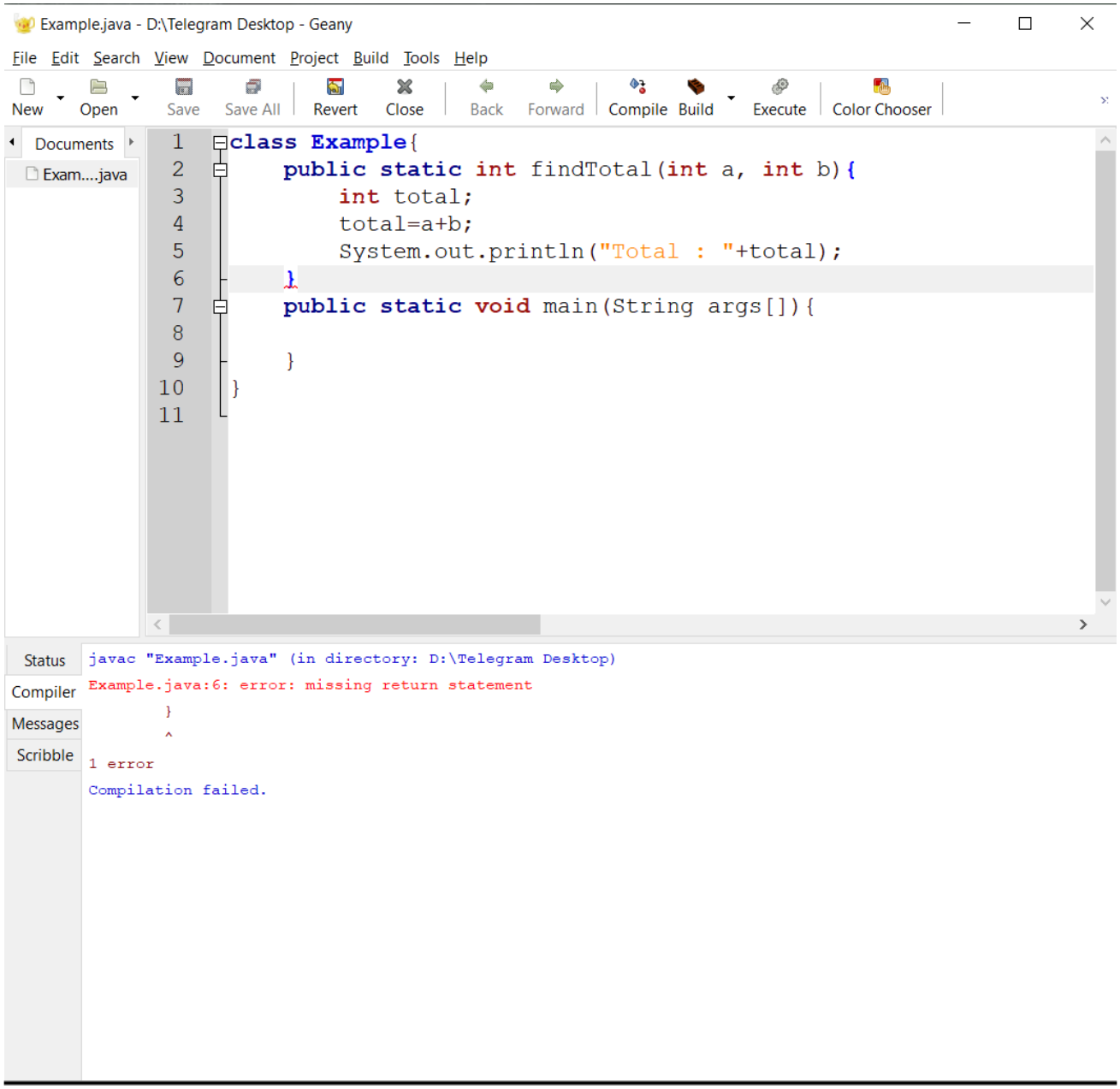
Q26 – case xv


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void printTotal(int a, int b){
3 int total;
4 total=a+b;
5 System.out.println("Total : "+total);
6 return total;
7 }
8 public static void main(String args[]){
9 printTotal(51,51);
10 //----------------
11 printTotal(49,49);
12 }
13 }
14
15
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:6: error: incompatible types: unexpected return value
return total;
^
1 error
Compilation failed.

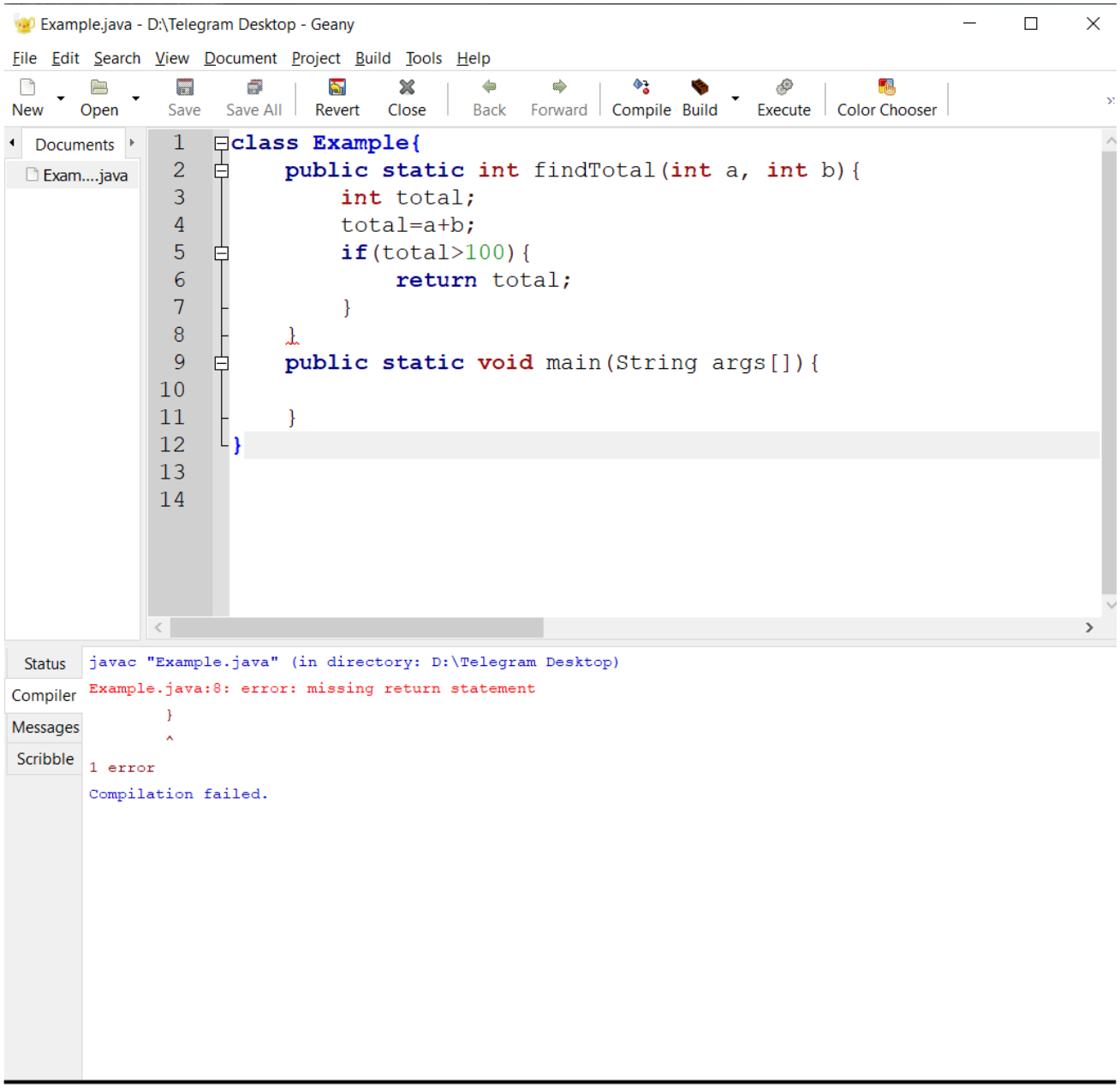
Q27 – case xvi


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void printTotal(int a, int b){
3 int total;
4 total=a+b;
5 return;
6 System.out.println("Total : "+total);
7 }
8 public static void main(String args[]){
9 printTotal(51,51);
10 //----------------
11 printTotal(49,49);
12 }
13 }
14
15
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:6: error: unreachable statement
System.out.println("Total : "+total);
^
1 error
Compilation failed.

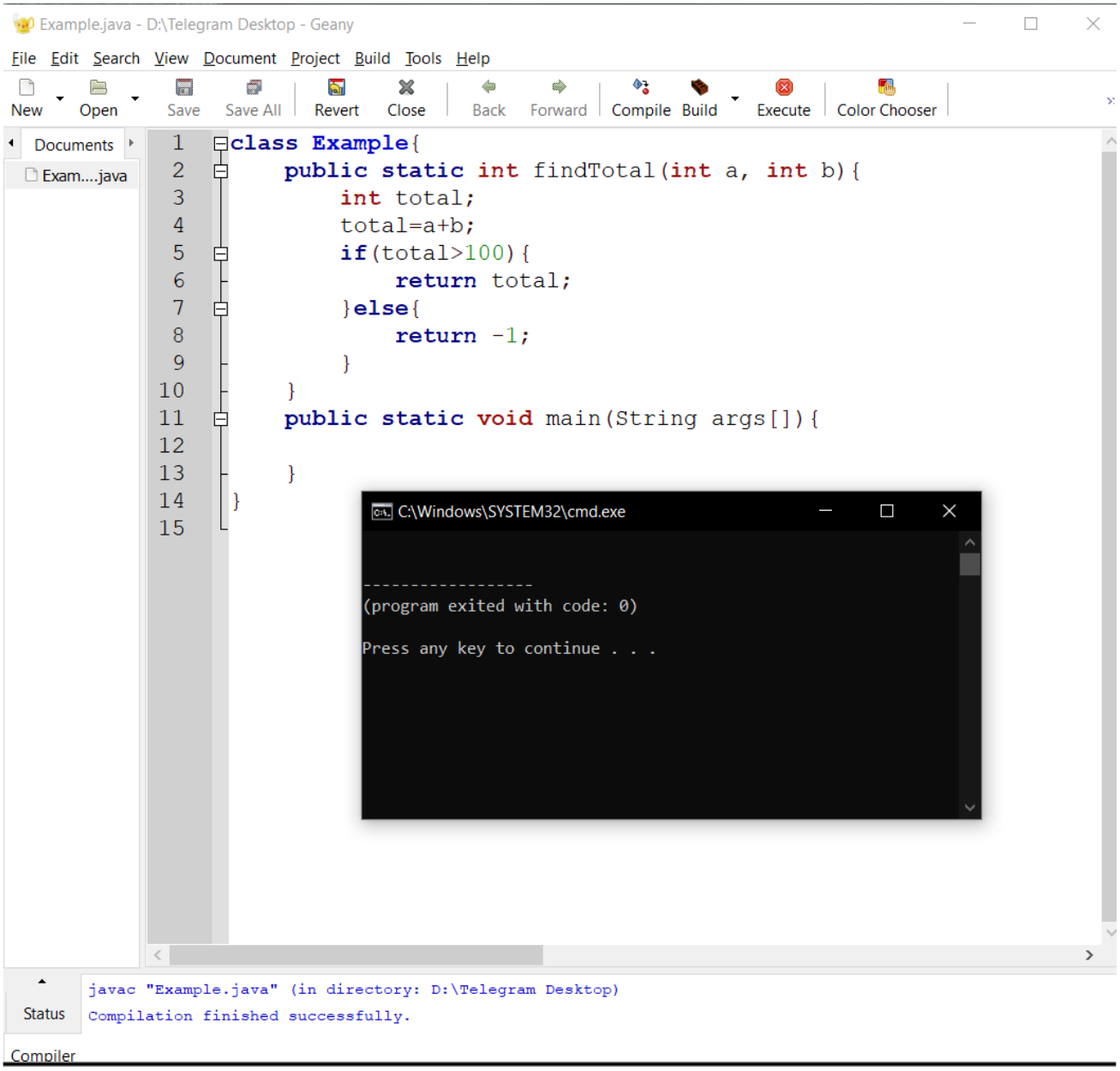
Q28 – caes xvii



Q29 – case xviii

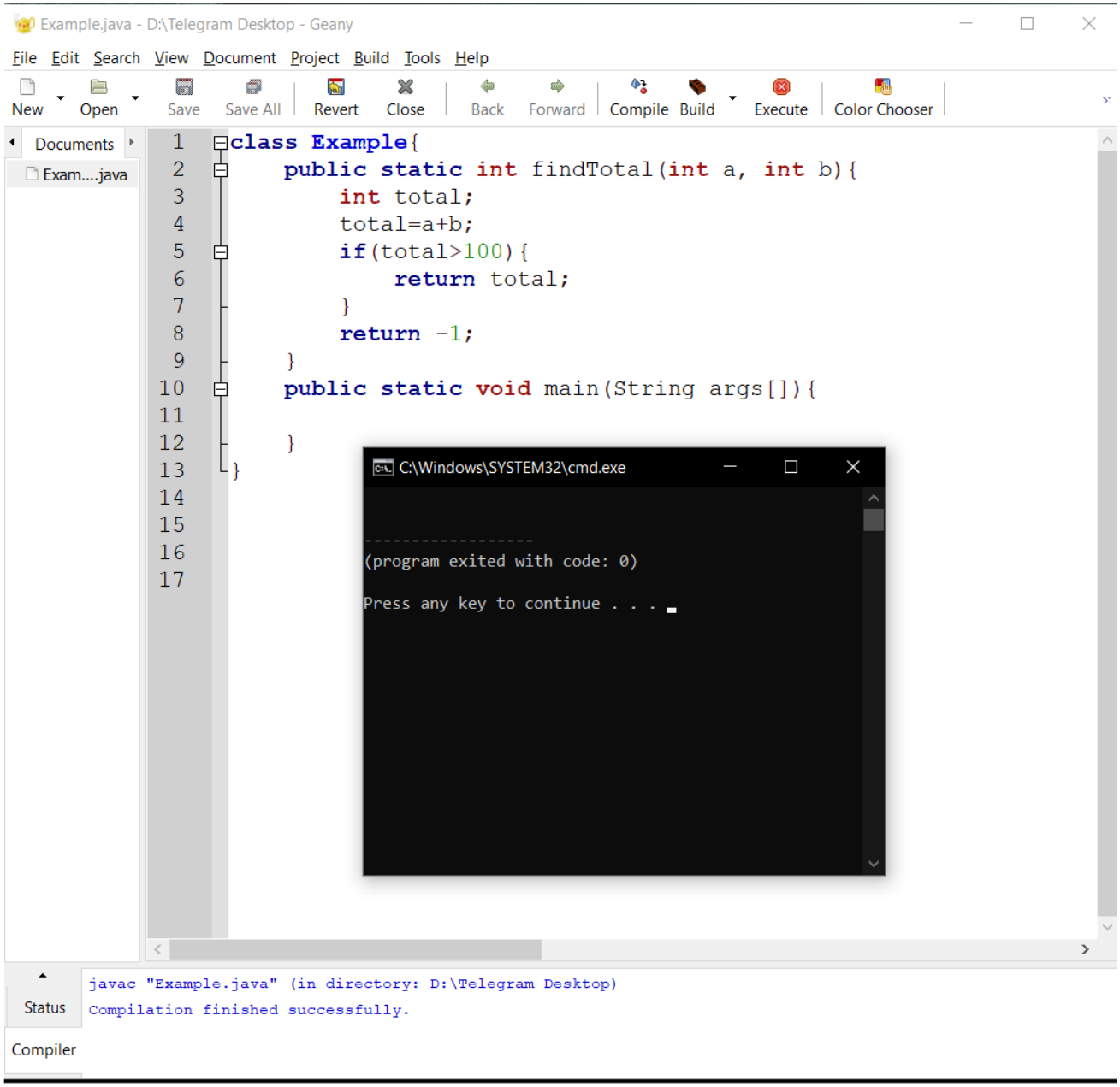


Q30 – option 1

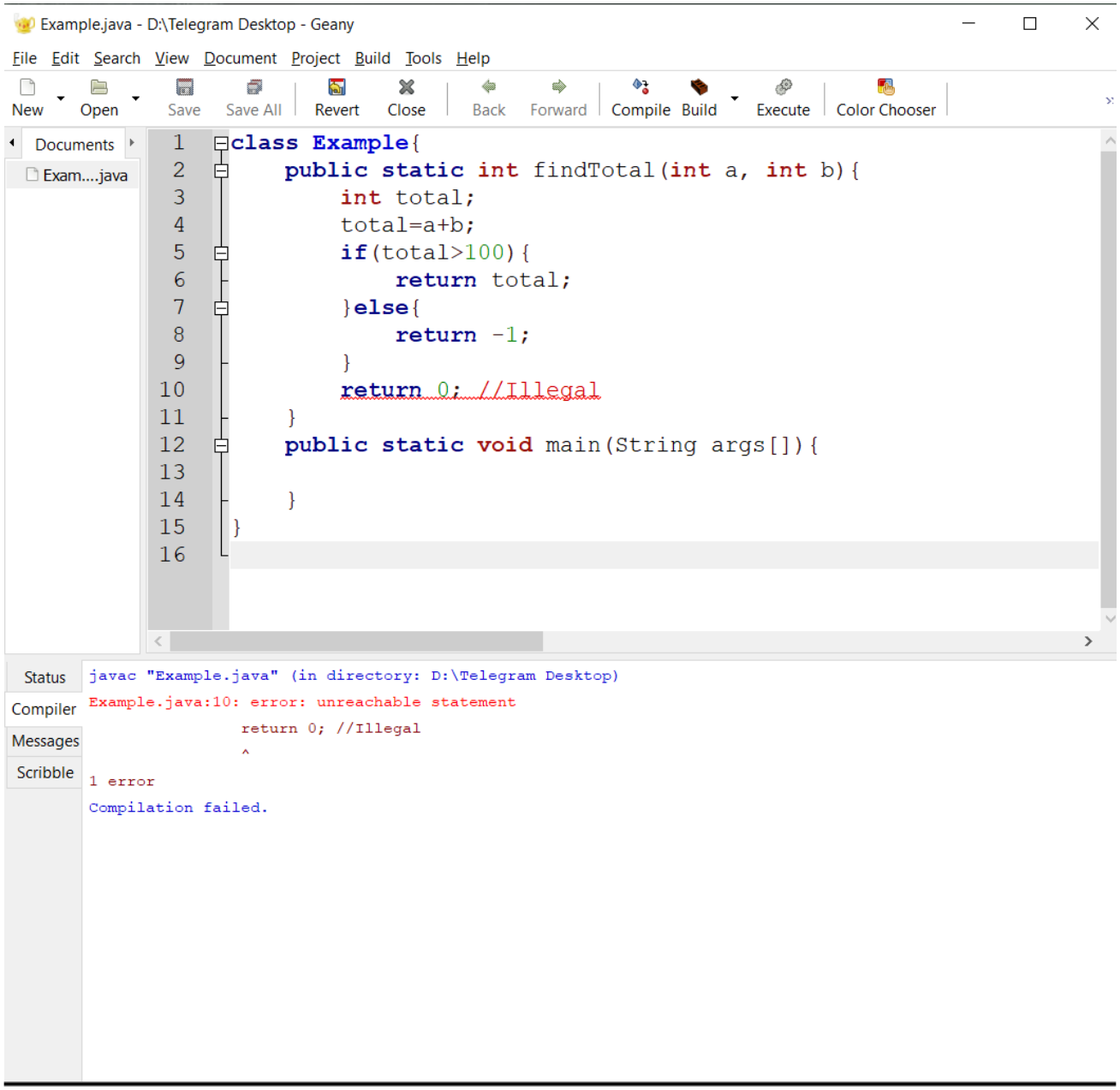

Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static int findTotal(int a, int b){
3 int total;
4 total=a+b;
5 if(total>100){
6 return total;
7 }else{
8 return -1;
9 }
10 }
11 public static void main(String args[]){
12
13 }
14 }
15
C:\Windows\SYSTEM32\cmd.exe

(program exited with code: 0)
Press any key to continue . . .
Status
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
Compiler

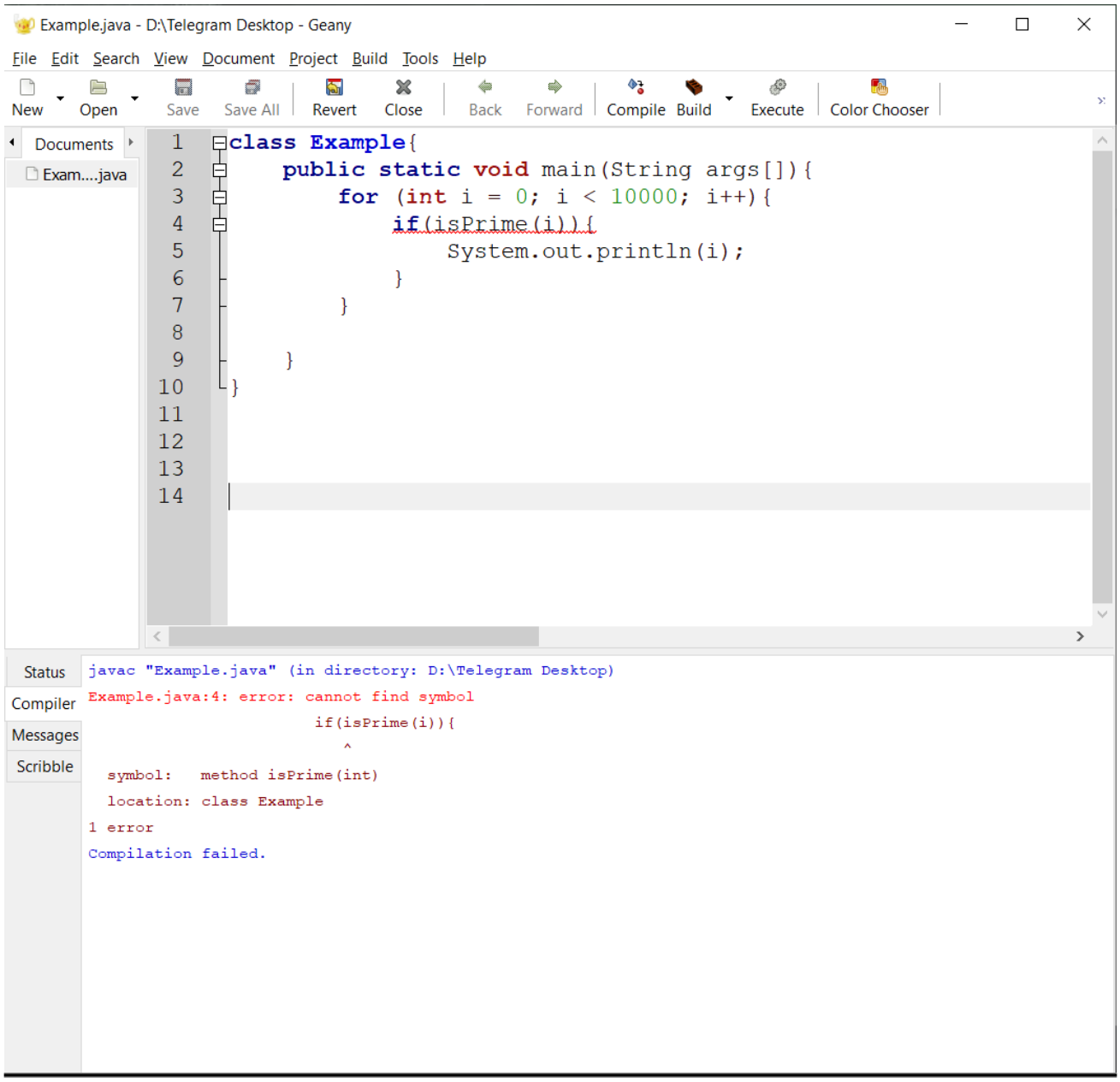
Q31 - option 2


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static int findTotal(int a, int b){
3 int total;
4 total=a+b;
5 if(total>100){
6 return total;
7 }
8 return -1;
9 }
10 public static void main(String args[]){
11
12 }
13 }
14
15
16
17
C:\Windows\SYSTEM32\cmd.exe
(program exited with code: 0)
Press any key to continue . . .
Status
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
Compiler

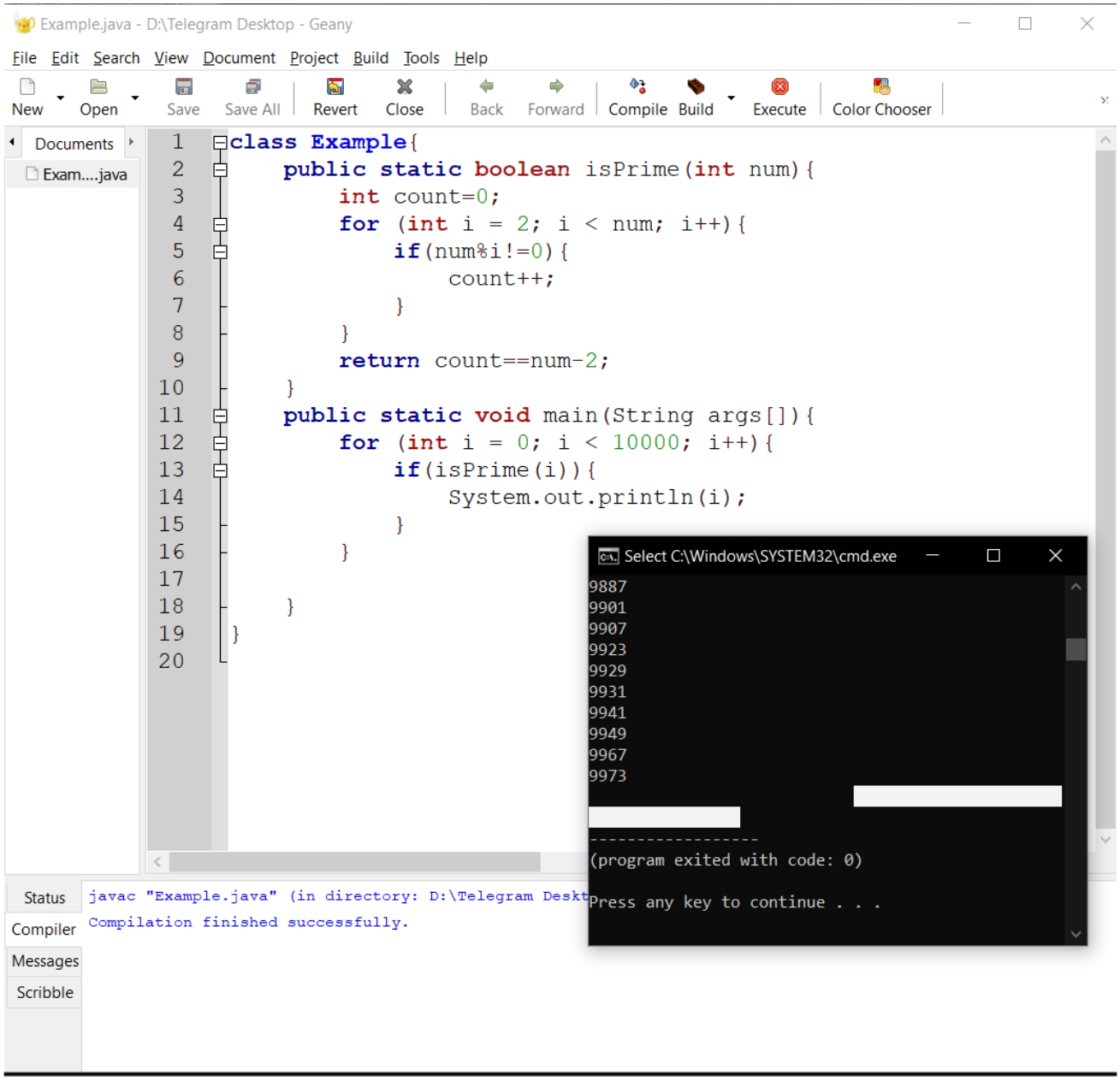
Q32 - option 3


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static int findTotal(int a, int b){
3 int total;
4 total=a+b;
5 if(total>100){
6 return total;
7 }else{
8 return -1;
9 }
10 return 0; //Illegal
11 }
12 public static void main(String args[]){
13
14 }
15 }
16
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:10: error: unreachable statement
return 0; //Illegal
^
1 error
Compilation failed.

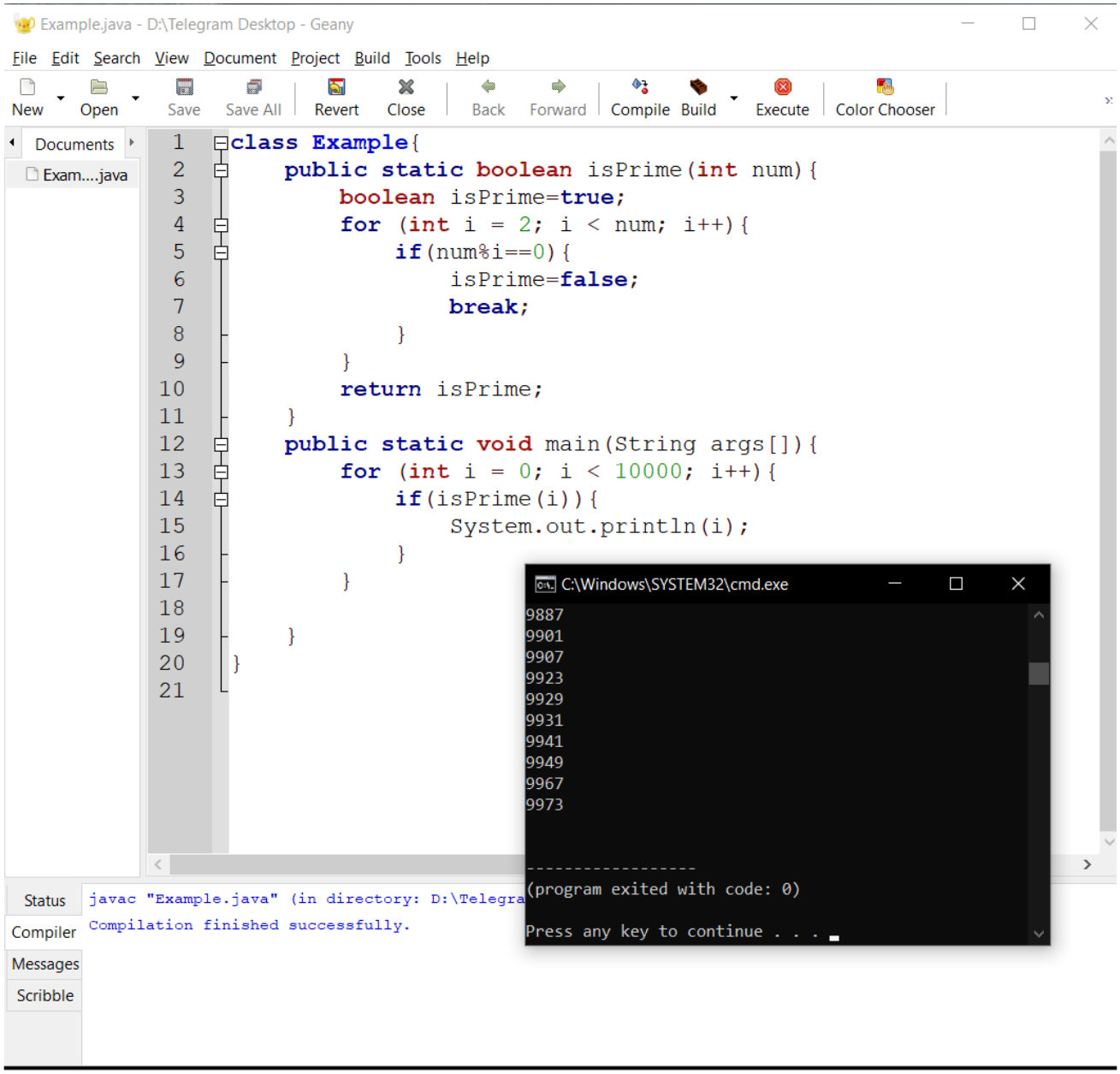
Q33


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void main(String args[]){
3 for (int i = 0; i < 10000; i++){
4 if(isPrime(i)){
5 System.out.println(i);
6 }
7 }
8
9 }
10 }
11
12
13
14
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:4: error: cannot find symbol
if(isPrime(i)){
^
symbol: method isPrime(int)
location: class Example
1 error
Compilation failed.

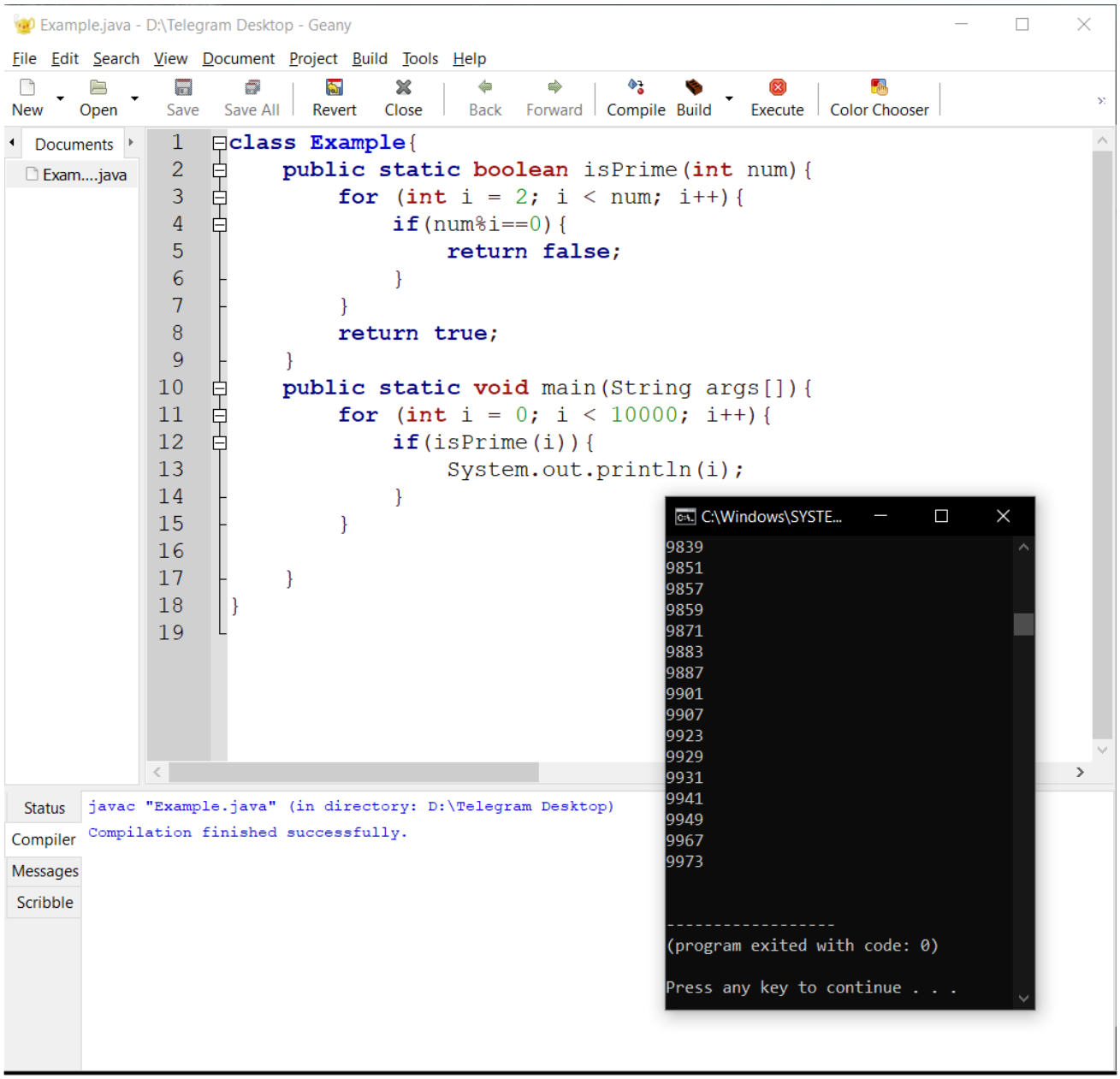
Q34 - option 1


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static boolean isPrime(int num){
3 int count=0;
4 for (int i = 2; i < num; i++){
5 if(num%i!=0){
6 count++;
7 }
8 }
9 return count==num-2;
10 }
11 public static void main(String args[]){
12 for (int i = 0; i < 10000; i++){
13 if(isPrime(i)){
14 System.out.println(i);
15 }
16 }
17
18 }
19 }
20
Select C:\Windows\SYSTEM32\cmd.exe
9887
9901
9907
9923
9929
9931
9941
9949
9967
9973
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Deskt
Compilation finished successfully.

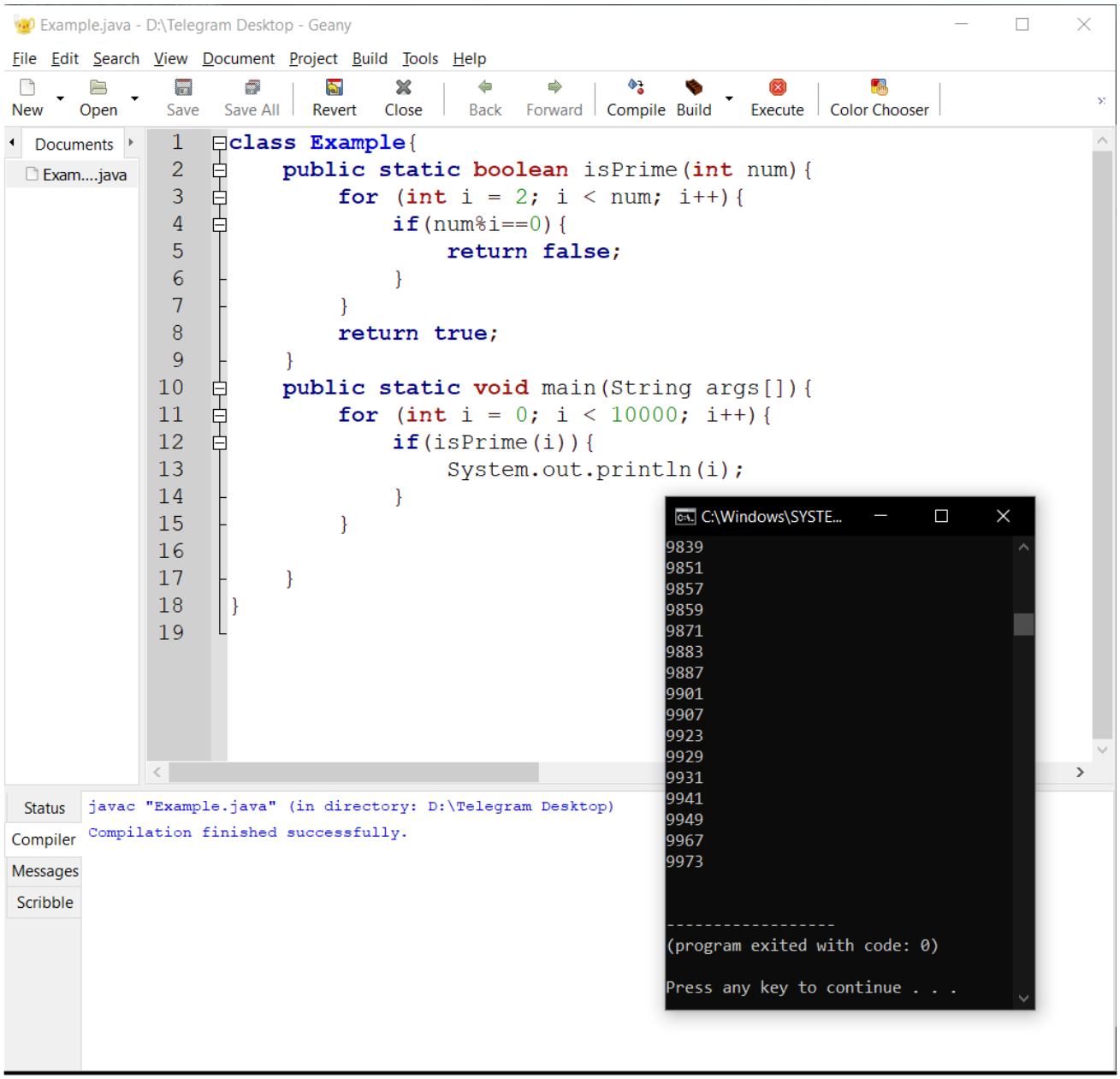
Q35 – option 2


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static boolean isPrime(int num){
3 boolean isPrime=true;
4 for (int i = 2; i < num; i++){
5 if(num%i==0){
6 isPrime=false;
7 break;
8 }
9 }
10 return isPrime;
11 }
12 public static void main(String args[]){
13 for (int i = 0; i < 10000; i++){
14 if(isPrime(i)){
15 System.out.println(i);
16 }
17 }
18
19 }
20 }
21
C:\Windows\SYSTEM32\cmd.exe
9887
9901
9907
9923
9929
9931
9941
9949
9967
9973
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegra
Compilation finished successfully.

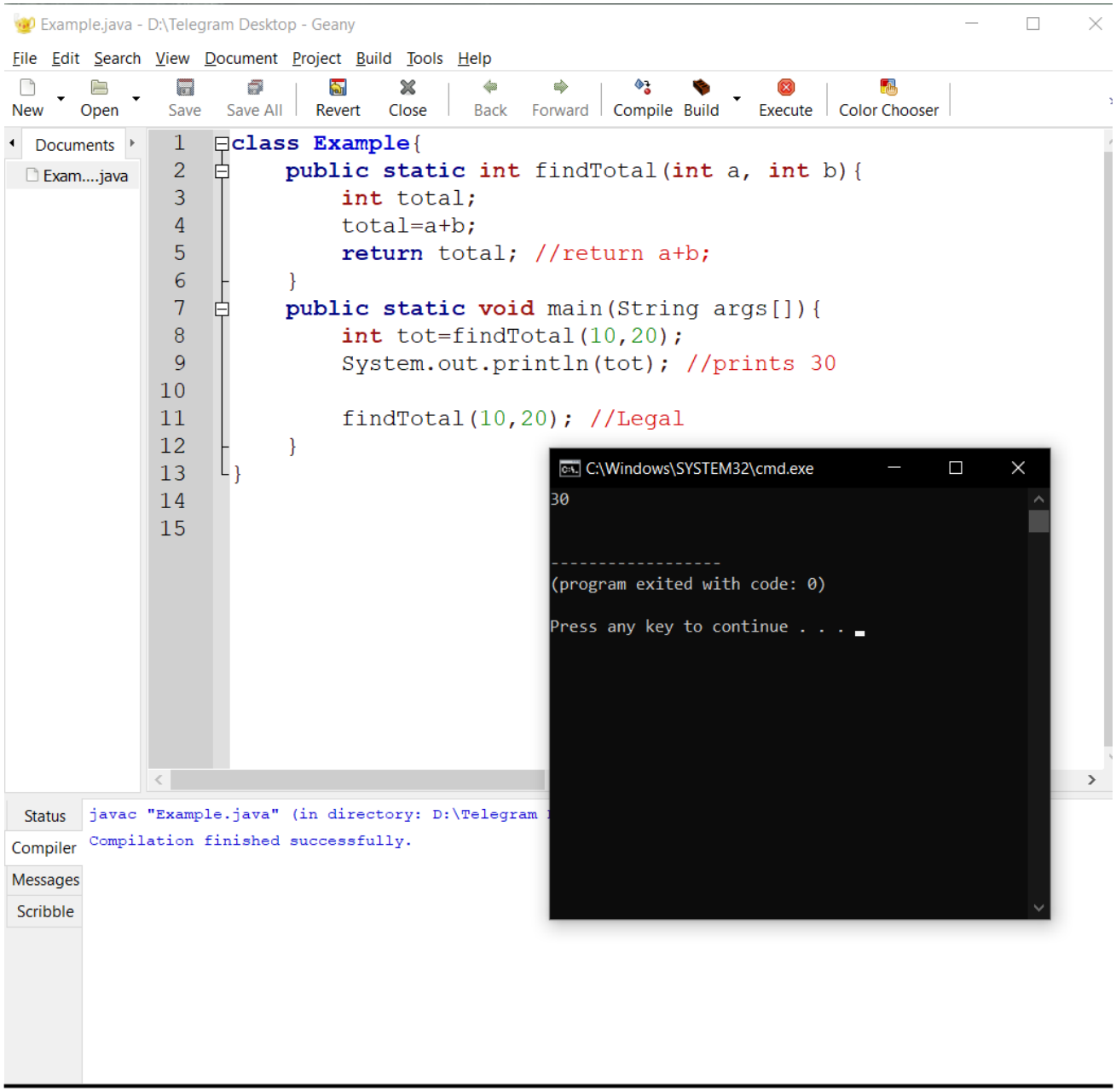
Q36 – option 3


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static boolean isPrime(int num){
3 for (int i = 2; i < num; i++){
4 if(num%i==0){
5 return false;
6 }
7 }
8 return true;
9 }
10 public static void main(String args[]){
11 for (int i = 0; i < 10000; i++){
12 if(isPrime(i)){
13 System.out.println(i);
14 }
15 }
16
17 }
18 }
19
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
C:\Windows\SYSTE...
9839
9851
9857
9859
9871
9883
9887
9901
9907
9923
9929
9931
9941
9949
9967
9973
(program exited with code: 0)
Press any key to continue . . .

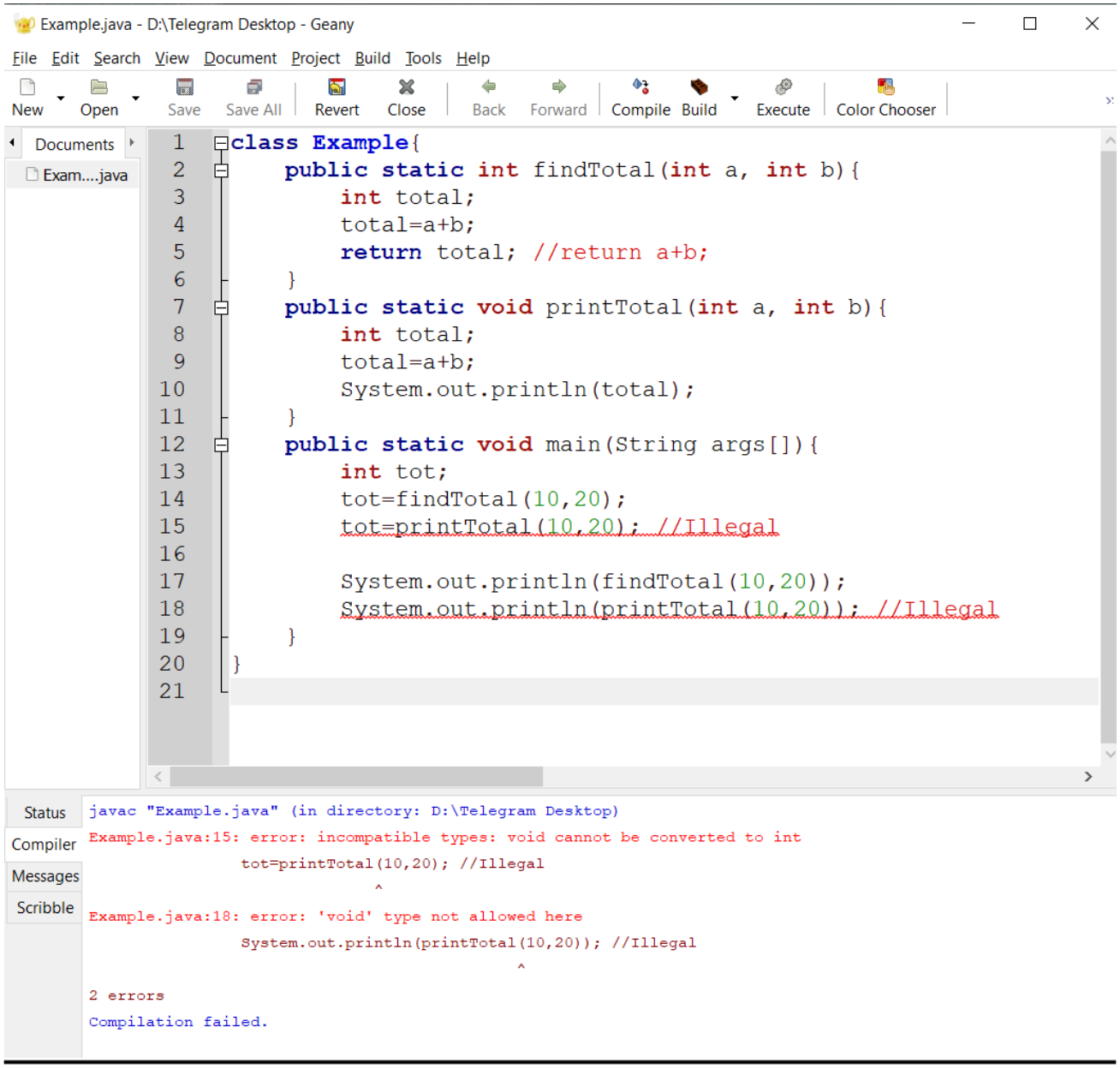
Q37


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static boolean isPrime(int num){
3 for (int i = 2; i < num; i++){
4 if(num%i==0){
5 return false;
6 }
7 }
8 return true;
9 }
10 public static void main(String args[]){
11 for (int i = 0; i < 10000; i++){
12 if(isPrime(i)){
13 System.out.println(i);
14 }
15 }
16
17 }
18 }
19
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.
C:\Windows\SYSTE...
9839
9851
9857
9859
9871
9883
9887
9901
9907
9923
9929
9931
9941
9949
9967
9973
(program exited with code: 0)
Press any key to continue . . .

Q38

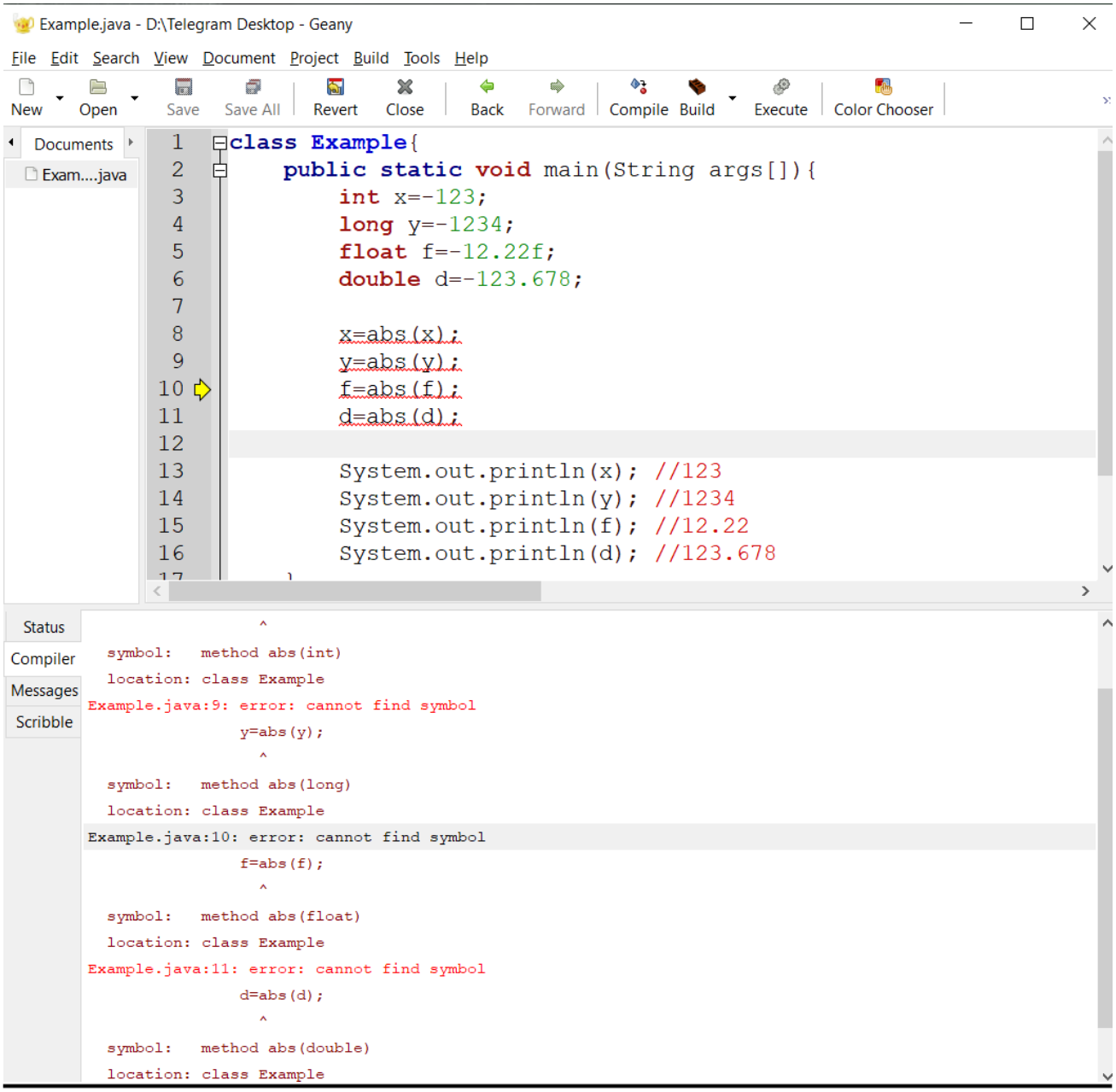

Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static int findTotal(int a, int b){
3 int total;
4 total=a+b;
5 return total; //return a+b;
6 }
7 public static void main(String args[]){
8 int tot=findTotal(10,20);
9 System.out.println(tot); //prints 30
10
11 findTotal(10,20); //Legal
12 }
13 }
14
15
C:\Windows\SYSTEM32\cmd.exe
30
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram
Compilation finished successfully.

Q39

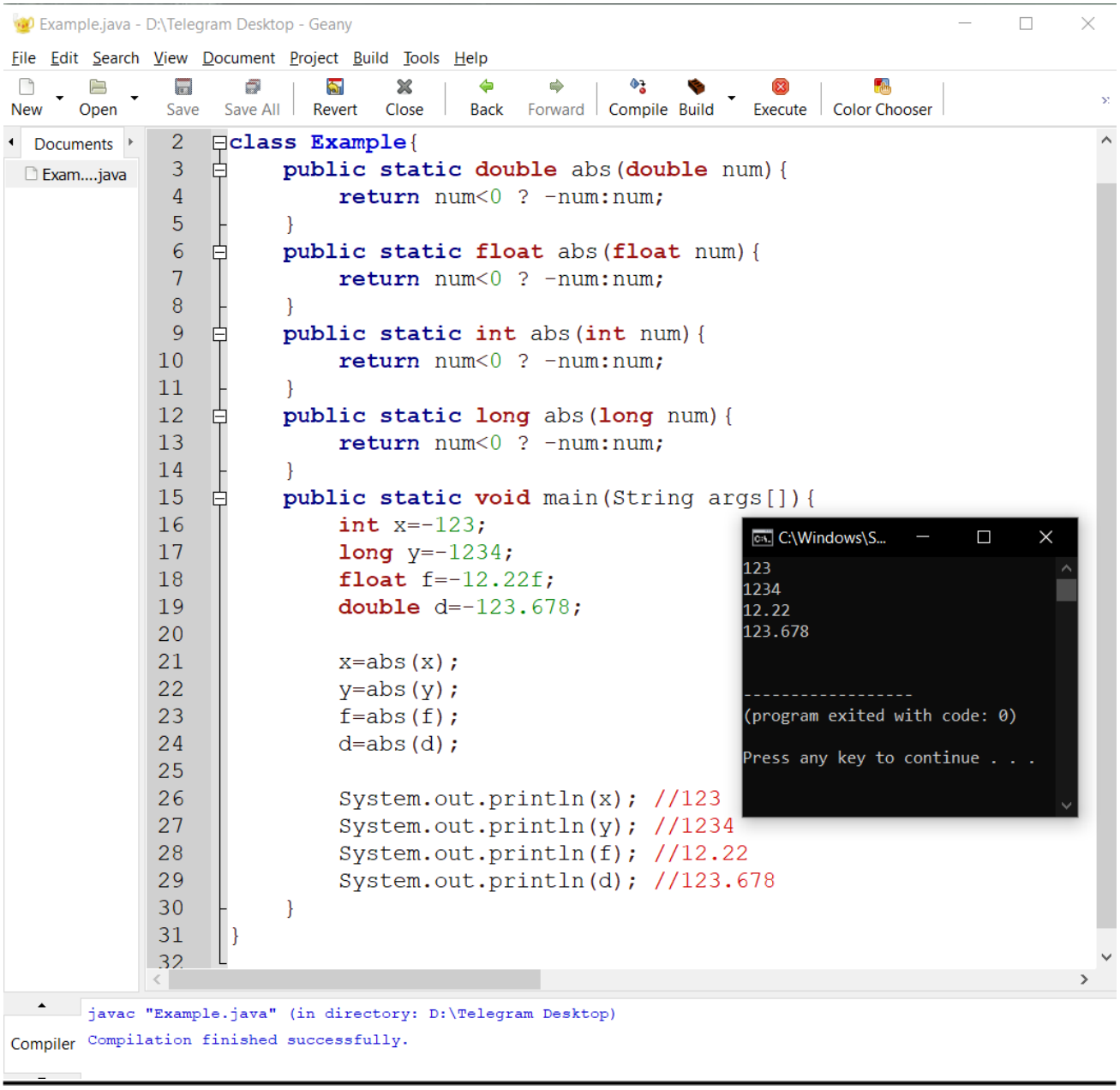

Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static int findTotal(int a, int b){
3 int total;
4 total=a+b;
5 return total; //return a+b;
6 }
7 public static void printTotal(int a, int b){
8 int total;
9 total=a+b;
10 System.out.println(total);
11 }
12 public static void main(String args[]){
13 int tot;
14 tot=findTotal(10,20);
15 tot=printTotal(10,20); //Illegal
16
17 System.out.println(findTotal(10,20));
18 System.out.println(printTotal(10,20)); //Illegal
19 }
20 }
21
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:15: error: incompatible types: void cannot be converted to int
tot=printTotal(10,20); //Illegal
^
Example.java:18: error: 'void' type not allowed here
System.out.println(printTotal(10,20)); //Illegal
^
2 errors
Compilation failed.

Method Overloading
(Same name, different parameters list)

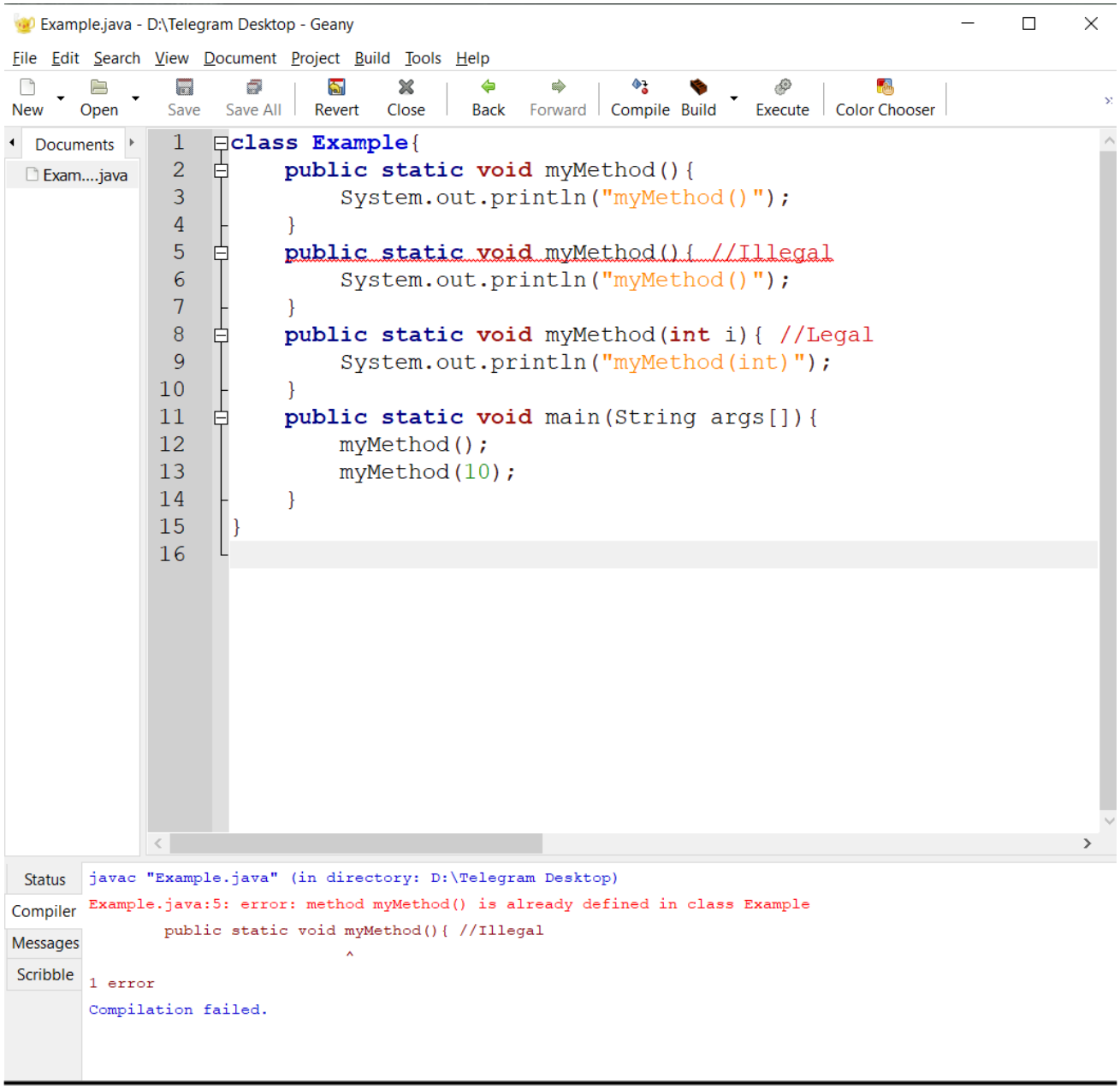
Q 40



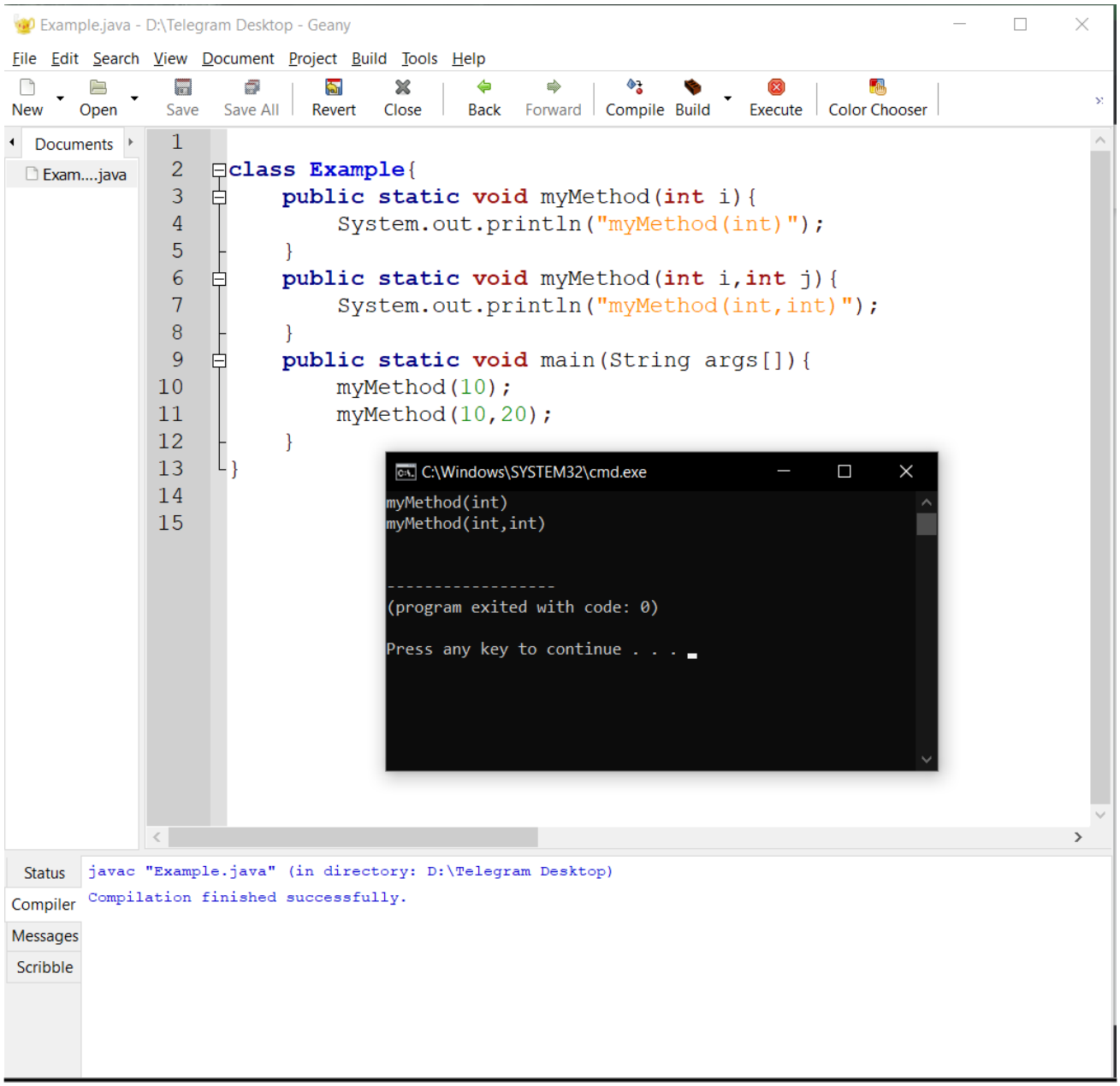
Q41


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
2 class Example{
3 public static double abs(double num){
4 return num<0 ? -num:num;
5 }
6 public static float abs(float num){
7 return num<0 ? -num:num;
8 }
9 public static int abs(int num){
10 return num<0 ? -num:num;
11 }
12 public static long abs(long num){
13 return num<0 ? -num:num;
14 }
15 public static void main(String args[]){
16 int x=-123;
17 long y=-1234;
18 float f=-12.22f;
19 double d=-123.678;
20
21 x=abs(x);
22 y=abs(y);
23 f=abs(f);
24 d=abs(d);
25
26 System.out.println(x); //123
27 System.out.println(y); //1234
28 System.out.println(f); //12.22
29 System.out.println(d); //123.678
30 }
31 }
32
C:\Windows\S...
123
1234
12.22
123.678
(program exited with code: 0)
Press any key to continue . . .
Compiler
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

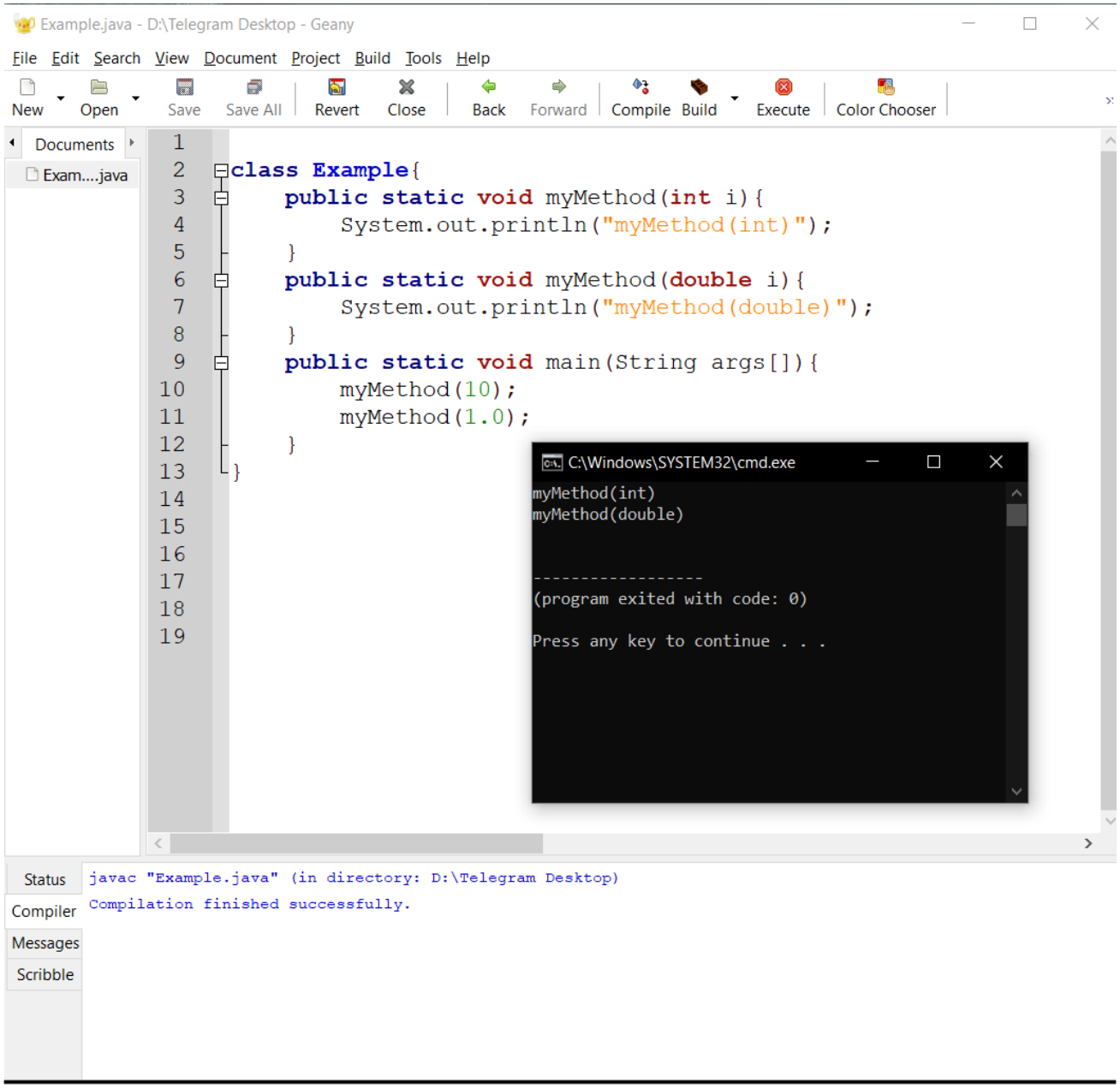
Q42 – case i


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(){
3 System.out.println("myMethod()");
4 }
5 public static void myMethod(){ //Illegal
6 System.out.println("myMethod()");
7 }
8 public static void myMethod(int i){ //Legal
9 System.out.println("myMethod(int)");
10 }
11 public static void main(String args[]){
12 myMethod();
13 myMethod(10);
14 }
15 }
16
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:5: error: method myMethod() is already defined in class Example
public static void myMethod(){ //Illegal
^
1 error
Compilation failed.

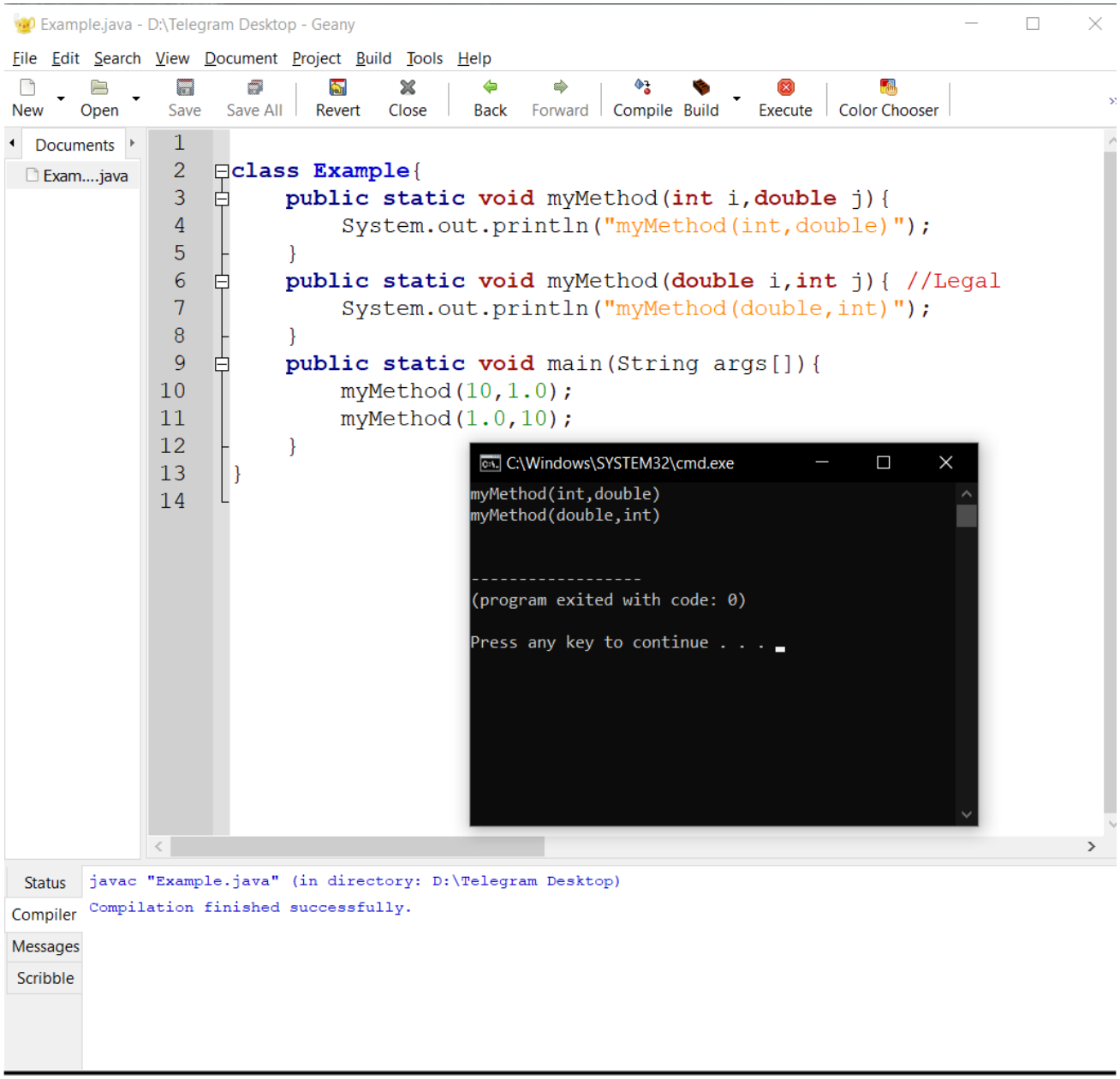
Q43 – case ii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int i){
3 System.out.println("myMethod(int)");
4 }
5 public static void myMethod(int i,int j){
6 System.out.println("myMethod(int,int)");
7 }
8 public static void main(String args[]){
9 myMethod(10);
10 myMethod(10,20);
11 }
12 }
13
14
15
C:\Windows\SYSTEM32\cmd.exe
myMethod(int)
myMethod(int,int)
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

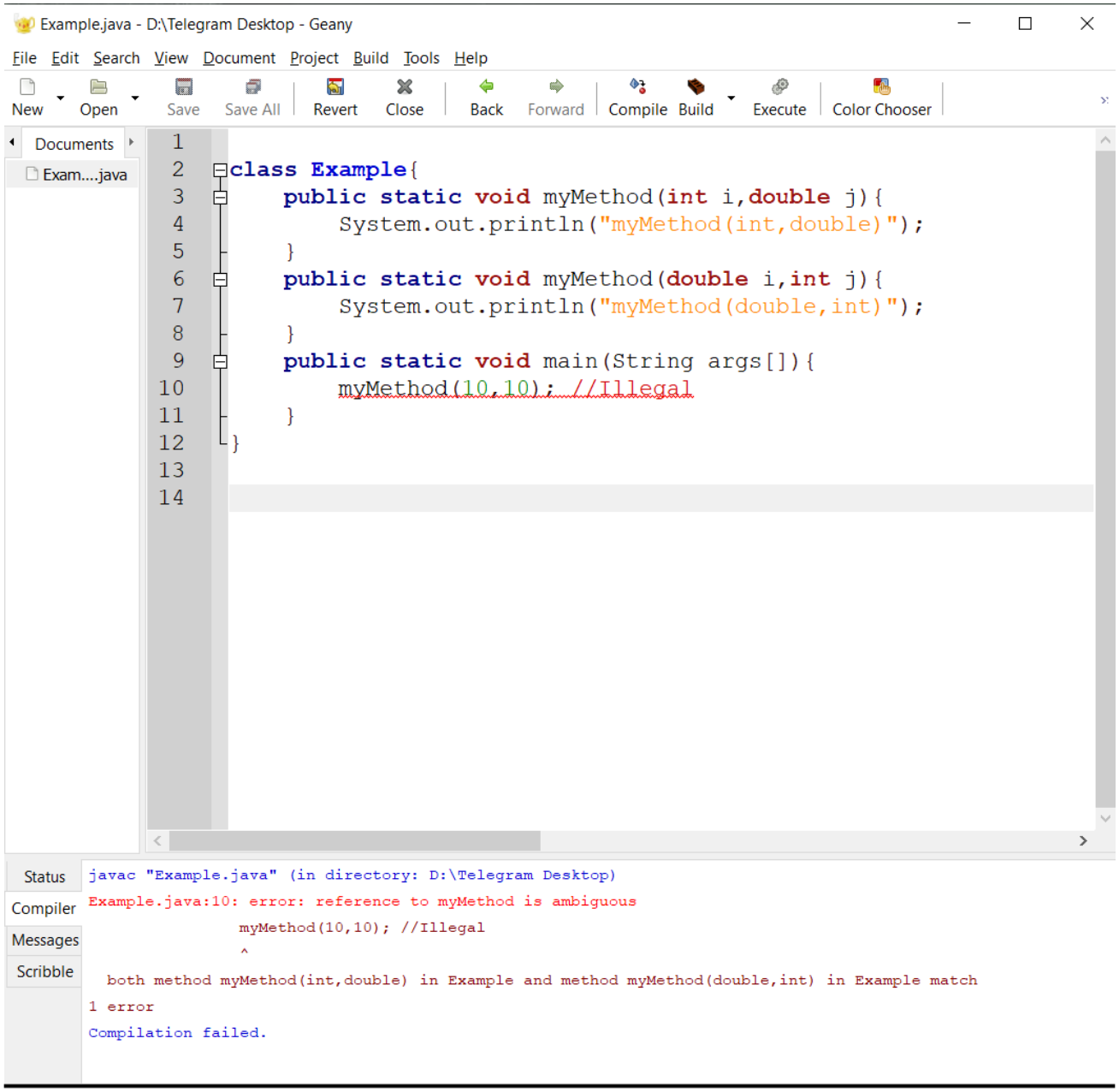
Q44 – case iii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int i){
3 System.out.println("myMethod(int)");
4 }
5 public static void myMethod(double i){
6 System.out.println("myMethod(double)");
7 }
8 public static void main(String args[]){
9 myMethod(10);
10 myMethod(1.0);
11 }
12 }
13
14
15
16
17
18
19
C:\Windows\SYSTEM32\cmd.exe
myMethod(int)
myMethod(double)
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

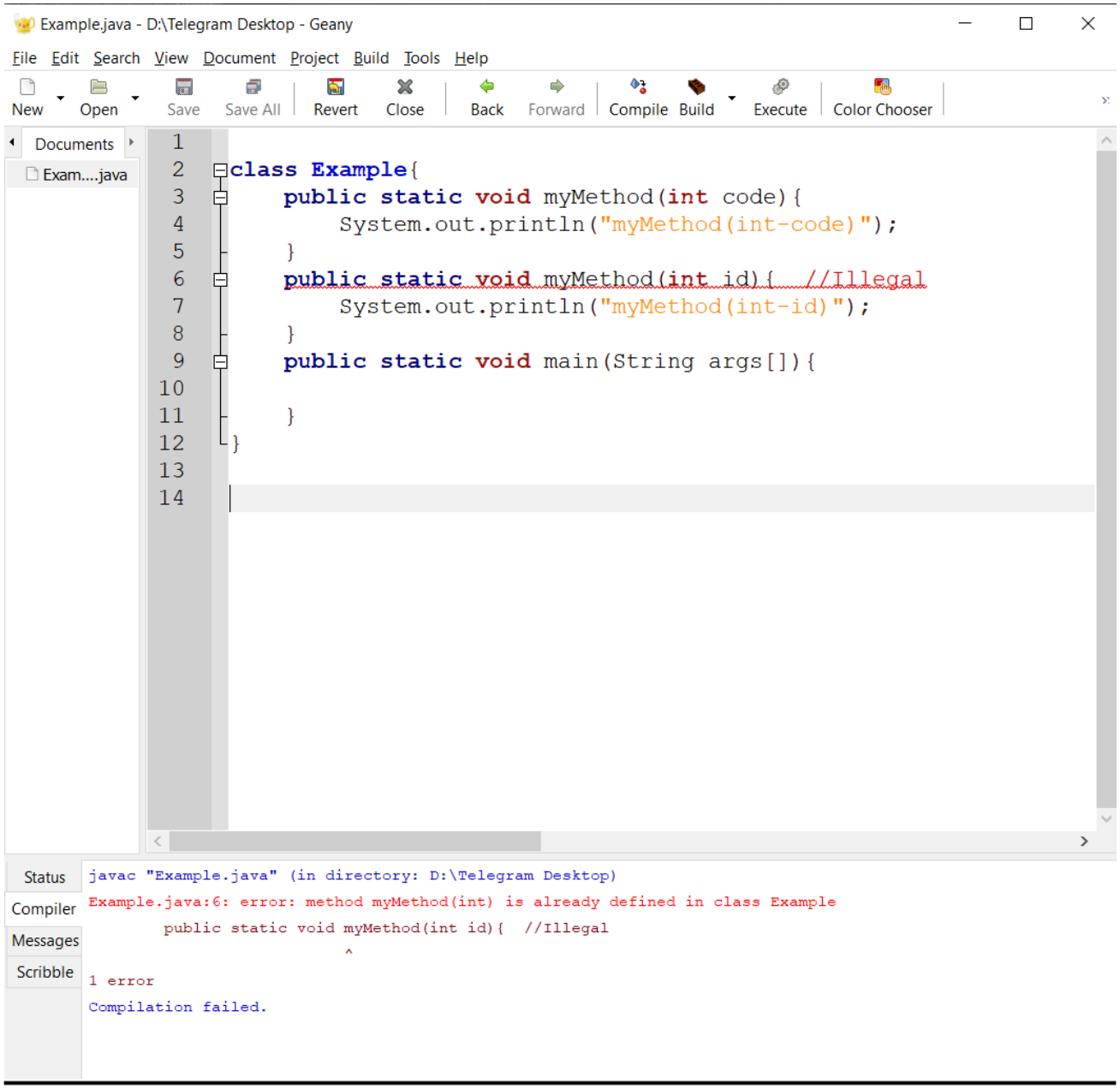
Q45 – case iv


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int i,double j){
3 System.out.println("myMethod(int,double)");
4 }
5 public static void myMethod(double i,int j){ //Legal
6 System.out.println("myMethod(double,int)");
7 }
8 public static void main(String args[]){
9 myMethod(10,1.0);
10 myMethod(1.0,10);
11 }
12 }
13
14
C:\Windows\SYSTEM32\cmd.exe
myMethod(int,double)
myMethod(double,int)
(program exited with code: 0)
Press any key to continue . . .
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Compilation finished successfully.

Q46 – case v


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static void myMethod(int i,double j){
3 System.out.println("myMethod(int,double)");
4 }
5 public static void myMethod(double i,int j){
6 System.out.println("myMethod(double,int)");
7 }
8 public static void main(String args[]){
9 myMethod(10,10); //Illegal
10 }
11 }
12
13
14
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:10: error: reference to myMethod is ambiguous
myMethod(10,10); //Illegal
^
both method myMethod(int,double) in Example and method myMethod(double,int) in Example match
1 error
Compilation failed.

Q47 – case vi


Example.java - D:\Telegram Desktop - Geany
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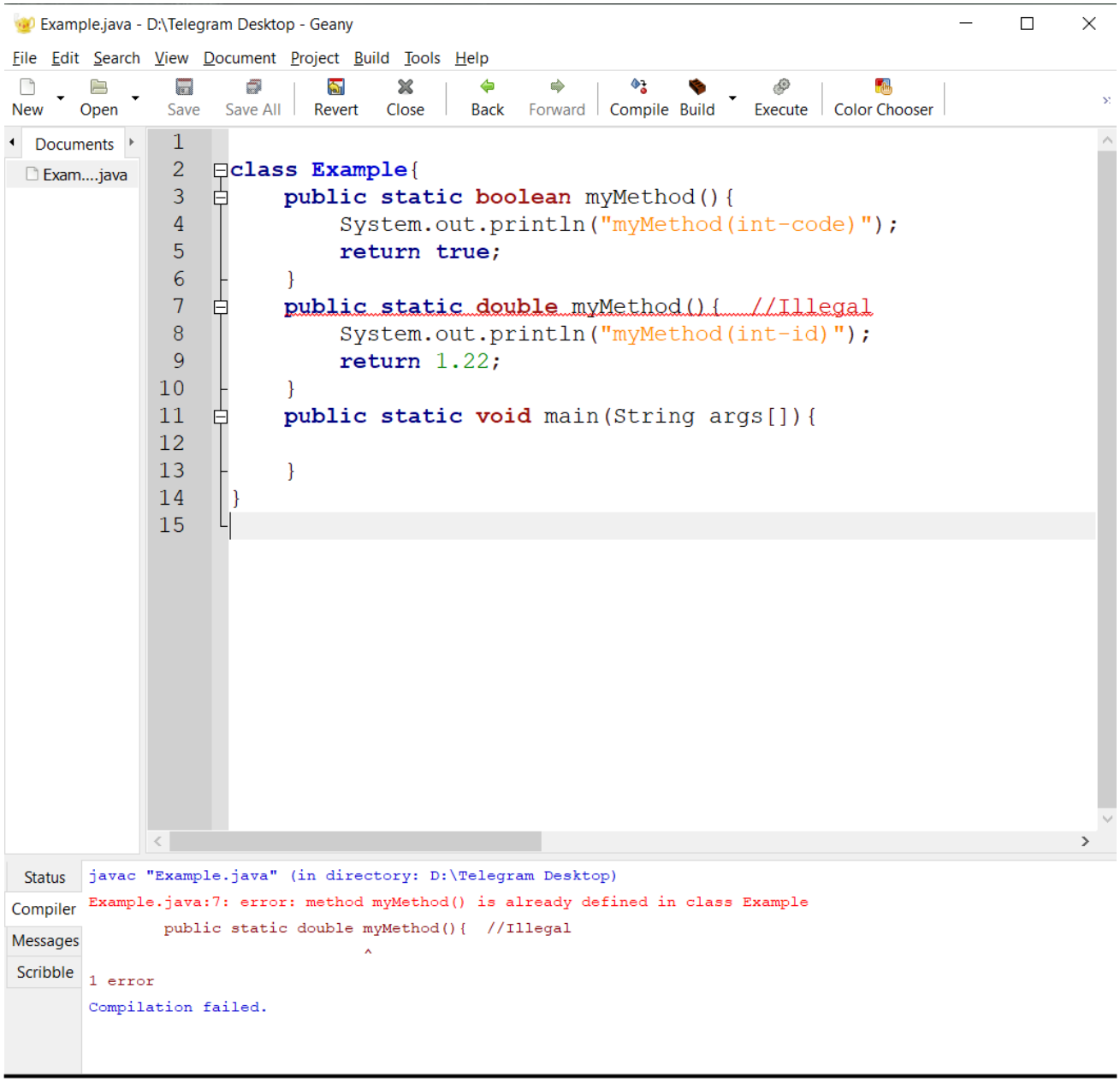
Documents
Exam....java
1 class Example{
2 public static void myMethod(int code){
3 System.out.println("myMethod(int-code)");
4 }
5 public static void myMethod(int id){ //Illegal
6 System.out.println("myMethod(int-id)");
7 }
8 public static void main(String args[]){
9
10 }
11 }
12
13
14
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:6: error: method myMethod(int) is already defined in class Example
public static void myMethod(int id){ //Illegal
^
1 error
Compilation failed.

Q48 – case vii


Example.java - D:\Telegram Desktop - Geany
File Edit Search View Document Project Build Tools Help
New Open Save Save All Revert Close Back Forward Compile Build Execute Color Chooser
Documents
Exam....java
1 class Example{
2 public static boolean myMethod(){
3 System.out.println("myMethod(int-code)");
4 return true;
5 }
6 public static double myMethod(){ //Illegal
7 System.out.println("myMethod(int-id)");
8 return 1.22;
9 }
10 public static void main(String args[]){
11
12 }
13 }
14
15
Status
Compiler
Messages
Scribble
javac "Example.java" (in directory: D:\Telegram Desktop)
Example.java:7: error: method myMethod() is already defined in class Example
public static double myMethod(){ //Illegal
^
1 error
Compilation failed.

Q