V.V.I

Interface

Page No. :
Date : / /

Q. What is interface? full explaination.

Ans→ Interface is just like a class, which contains only abstract method.

To achieve interface java provides a keyword called 'implements'.

Note :- 1) Interface methods are by default public & abstract.

interface ent
$

To achieve interface Java provides a Keyword Called 'implements'.

Note :- i) Interface methods are bydefault public & abstract.

ii) Interface variables are bydefault public + static + final.

iii) Interface method must be overriden inside the implementing

iv) Interface nothin

```
interface client
{
    void m1();
}
```

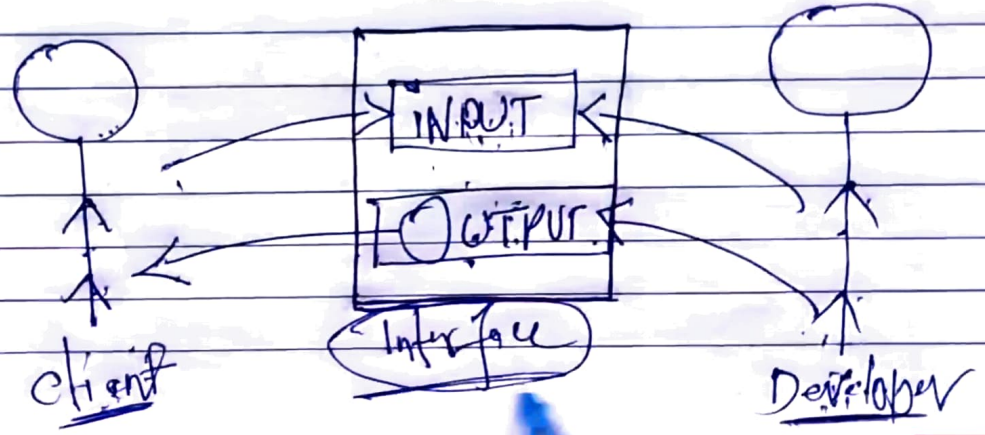
ii) Interface variables are bydefault public + static + final. { int a; }

iii) Interface method must be overriden inside the implementing classes.

iv) Interface nothing but deals between client & developer.

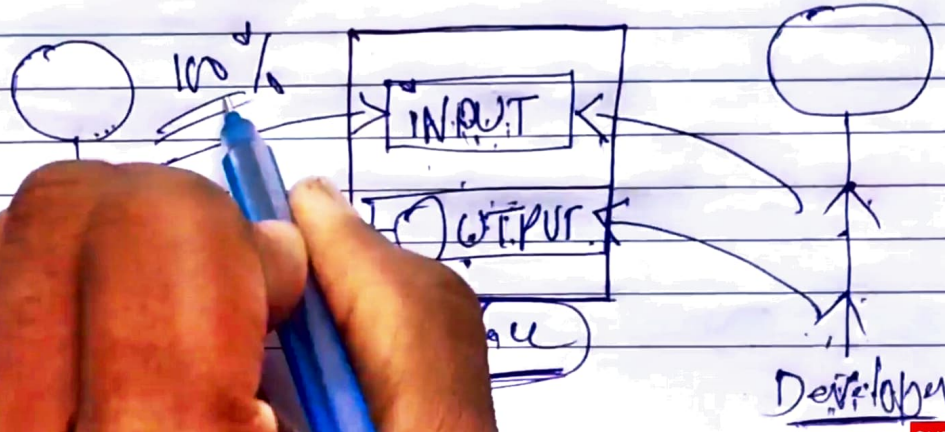
iii) Interface method must be overridden inside the implementing classes.

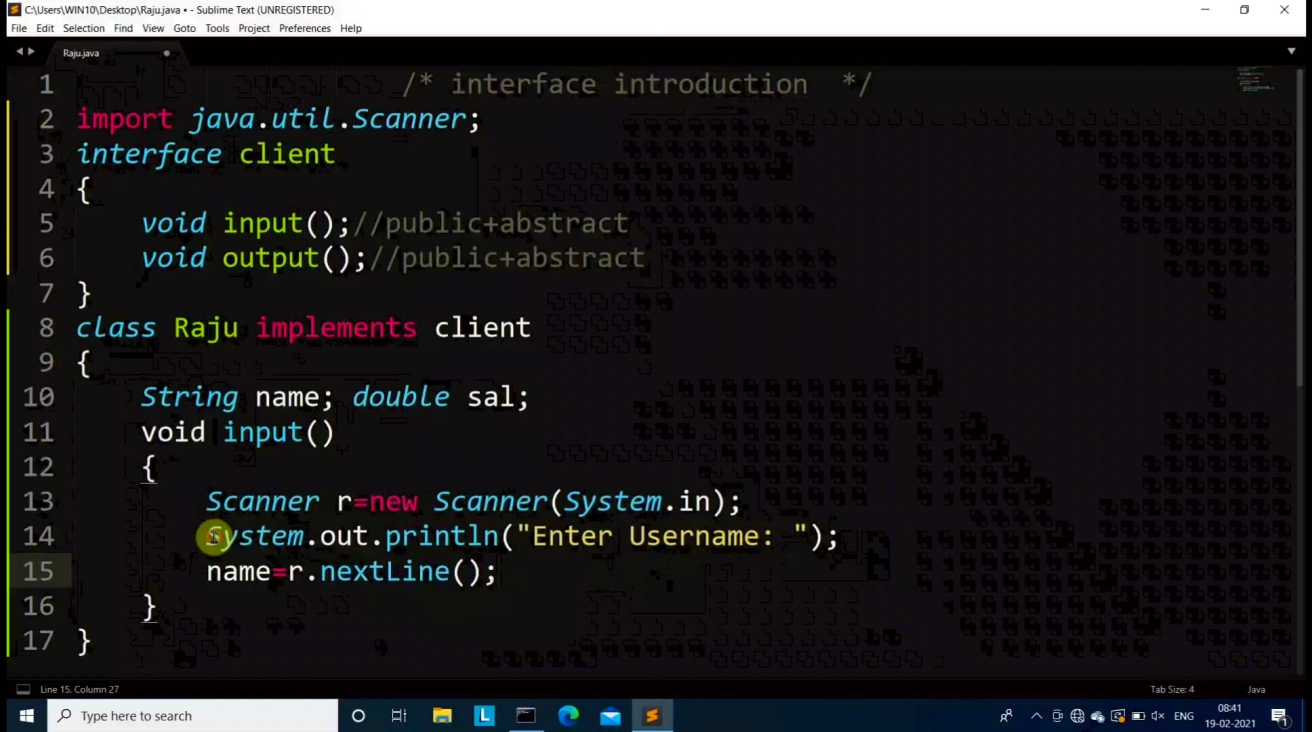
iv) Interface nothing but deals between client & developer.



iii) Interface method must be overriden inside the implementing classes.

iv) Interface nothing but deals between client & developer.




C:\Users\WIN10\Desktop\Raju.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Raju.java
/* interface introduction */
import java.util.Scanner;
interface client
{
void input();//public+abstract
void output();//public+abstract
}
class Raju implements client
{
String name; double sal;
void input()
{
Scanner r=new Scanner(System.in);
System.out.println("Enter Username: ");
name=r.nextLine();
}
}
Line 15, Column 27
Tab Size: 4
Java
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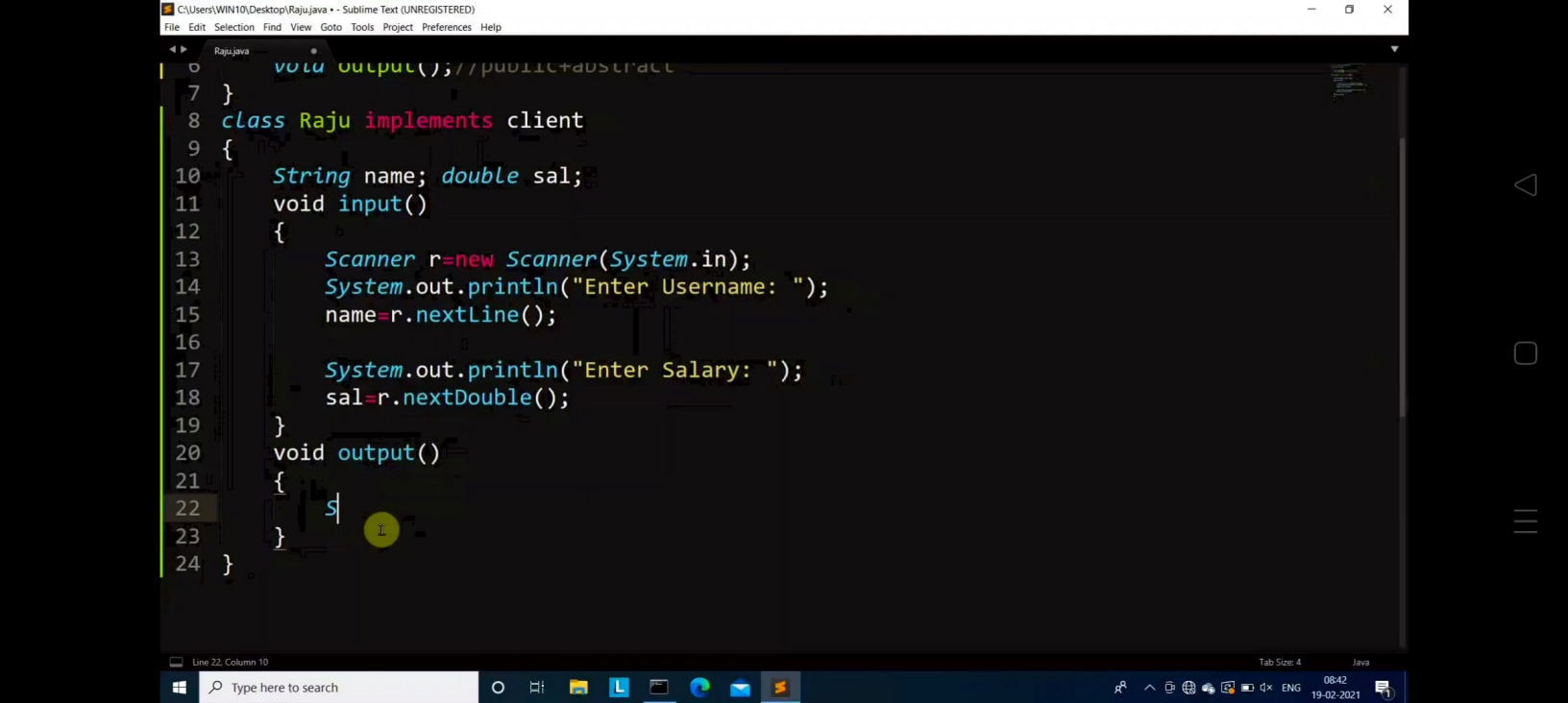
ENG
08:41
19-02-2021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File Edit Selection Find View Goto Tools Project Preferences Help
Raju.java
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}
class Raju implements client
{
String name; double sal;
void input()
{
Scanner r=new Scanner(System.in);
System.out.println("Enter Username: ");
name=r.nextLine();
System.out.println("Enter Salary: ");
sal=r.nextDouble();
}
void output()
{
S
}
}
Line 22, Column 10
Tab Size: 4
Java
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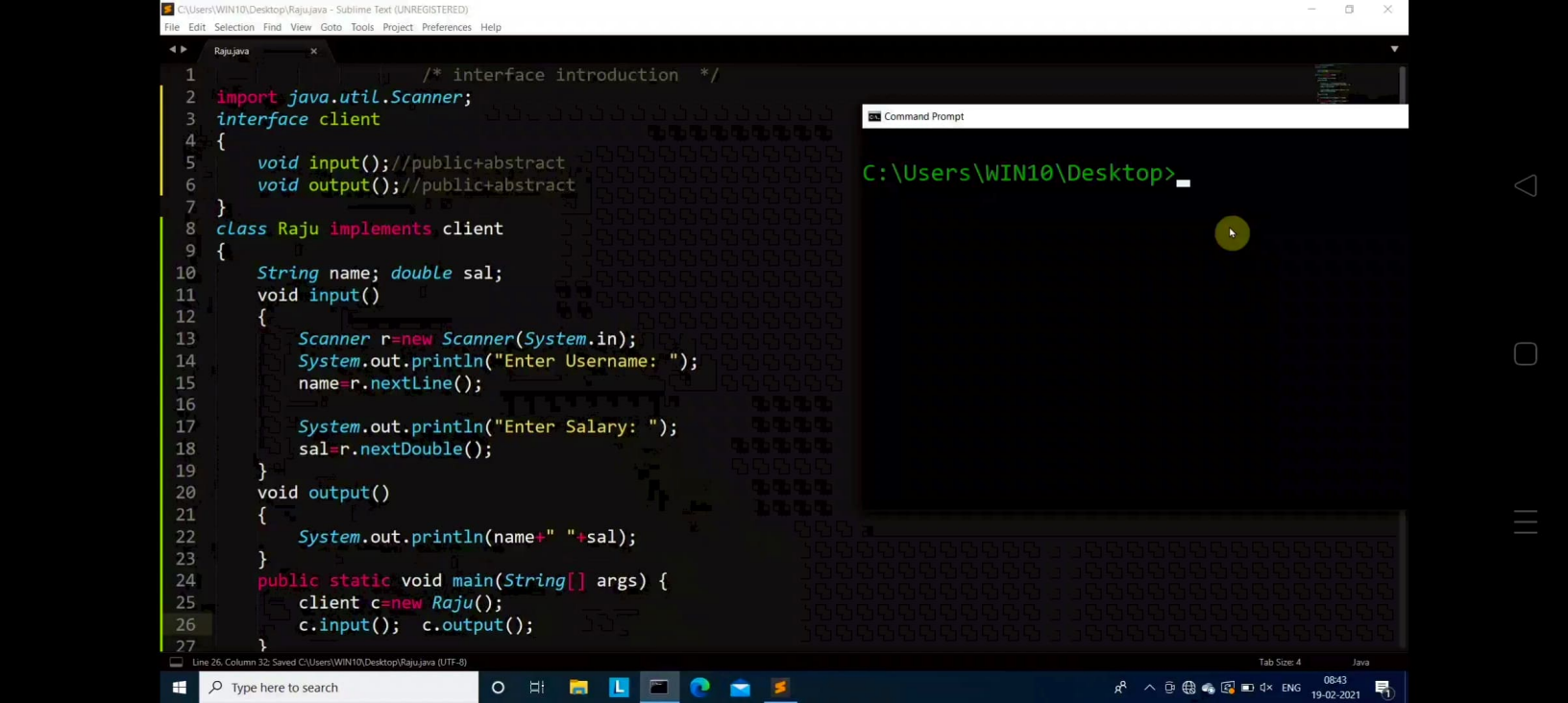
ENG
08:42
19-02-2021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void output();//public+abstract
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{
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{
Scanner r=new Scanner(System.in);
System.out.println("Enter Username: ");
name=r.nextLine();
System.out.println("Enter Salary: ");
sal=r.nextDouble();
}
void output()
{
System.out.println(name+" "+sal);
}
public static void main(String[] args) {
client c=new Raju();
c.input(); c.output();
}
Command Prompt
C:\Users\WIN10\Desktop>
Line 26, Column 32; Saved C:\Users\WIN10\Desktop\Raju.java (UTF-8)
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Java
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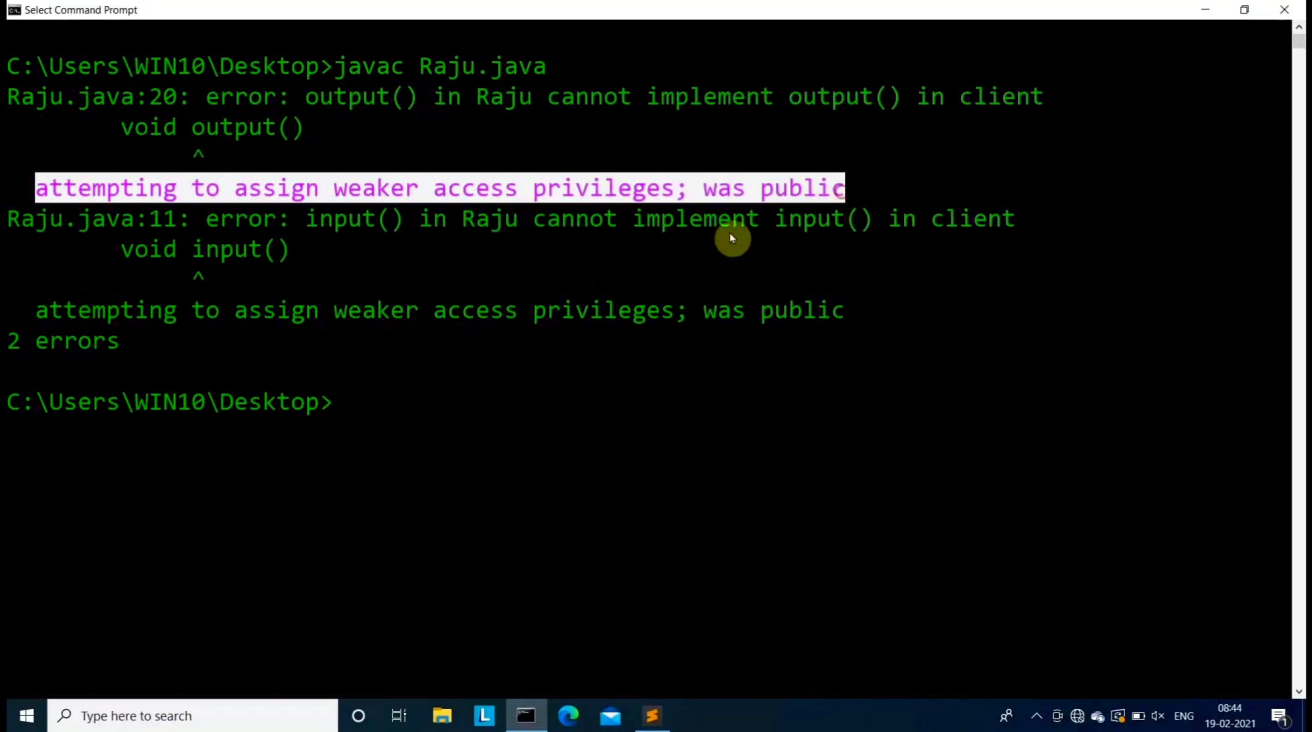
19-02-2021


Select Command Prompt
C:\Users\WIN10\Desktop>javac Raju.java
Raju.java:20: error: output() in Raju cannot implement output() in client
void output()
^
attempting to assign weaker access privileges; was public
Raju.java:11: error: input() in Raju cannot implement input() in client
void input()
^
attempting to assign weaker access privileges; was public
2 errors
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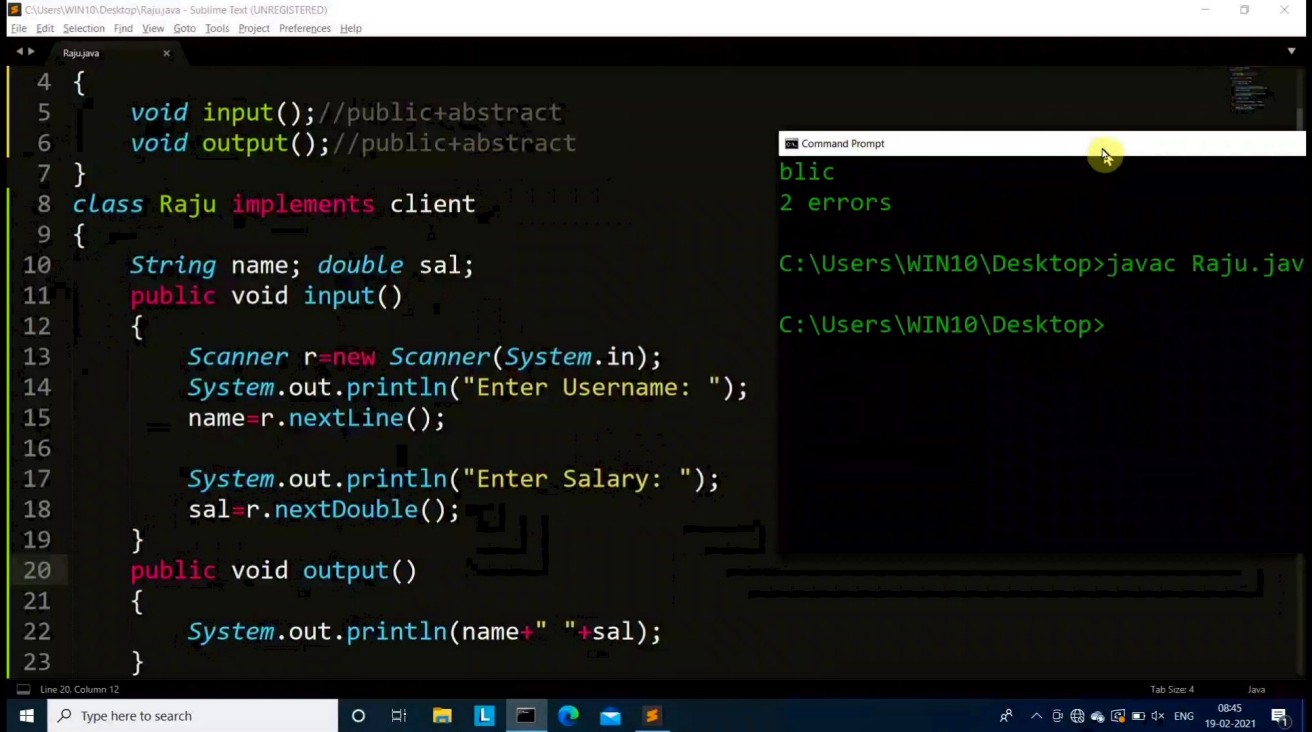
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Raju.java
{
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}
class Raju implements client
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{
Scanner r=new Scanner(System.in);
System.out.println("Enter Username: ");
name=r.nextLine();
System.out.println("Enter Salary: ");
sal=r.nextDouble();
}
public void output()
{
System.out.println(name+" "+sal);
}
Command Prompt
blic
2 errors
C:\Users\WIN10\Desktop>javac Raju.jav
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Line 20, Column 12
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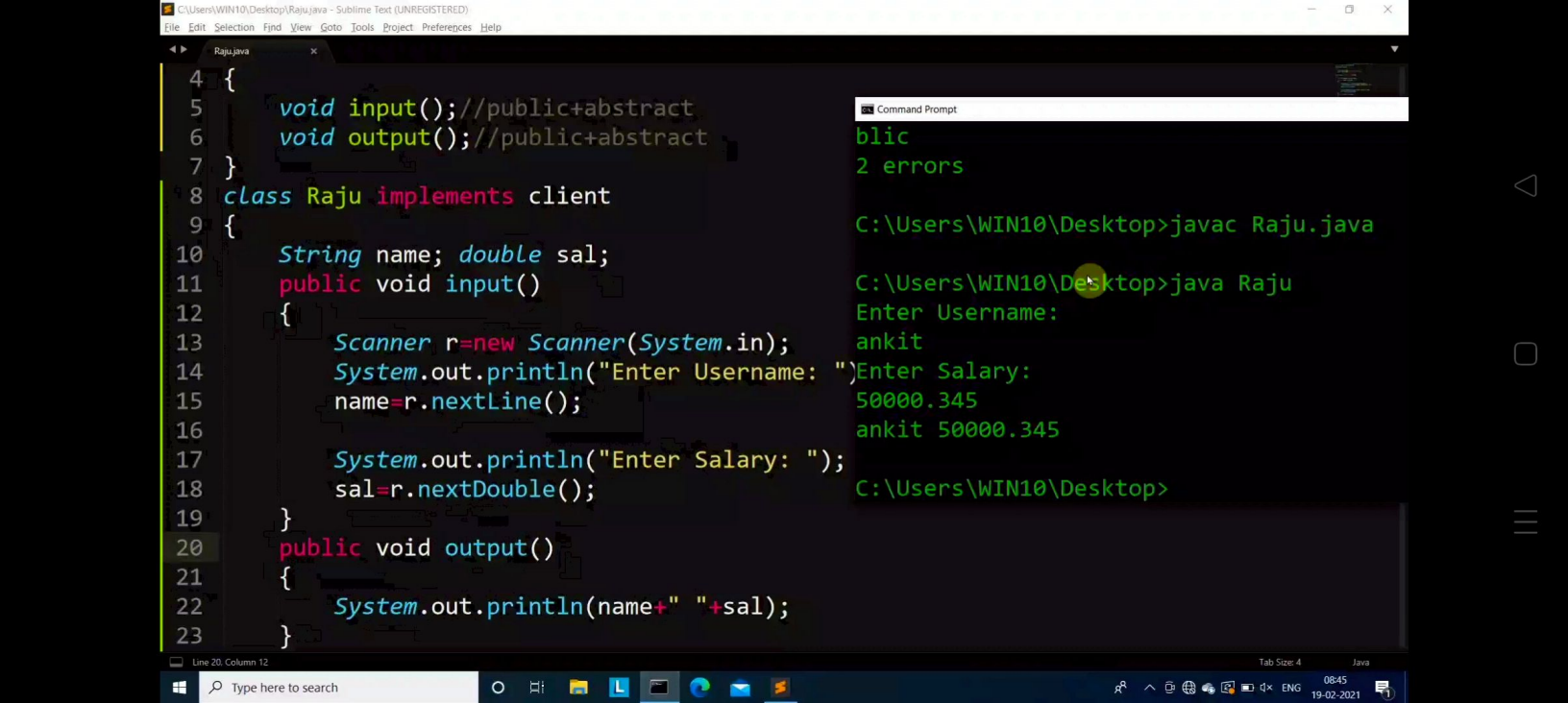
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File Edit Selection Find View Goto Tools Project Preferences Help
Raju.java
4 {
5 void input();//public+abstract
6 void output();//public+abstract
7 }
8 class Raju implements client
9 {
10 String name; double sal;
11 public void input()
12 {
13 Scanner r=new Scanner(System.in);
14 System.out.println("Enter Username: ");
15 name=r.nextLine();
16
17 System.out.println("Enter Salary: ");
18 sal=r.nextDouble();
19 }
20 public void output()
21 {
22 System.out.println(name+" "+sal);
23 }
Line 20, Column 12
Tab Size: 4
Java
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2 errors
C:\Users\WIN10\Desktop>javac Raju.java
C:\Users\WIN10\Desktop>java Raju
Enter Username:
ankit
Enter Salary:
50000.345
ankit 50000.345
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ENG
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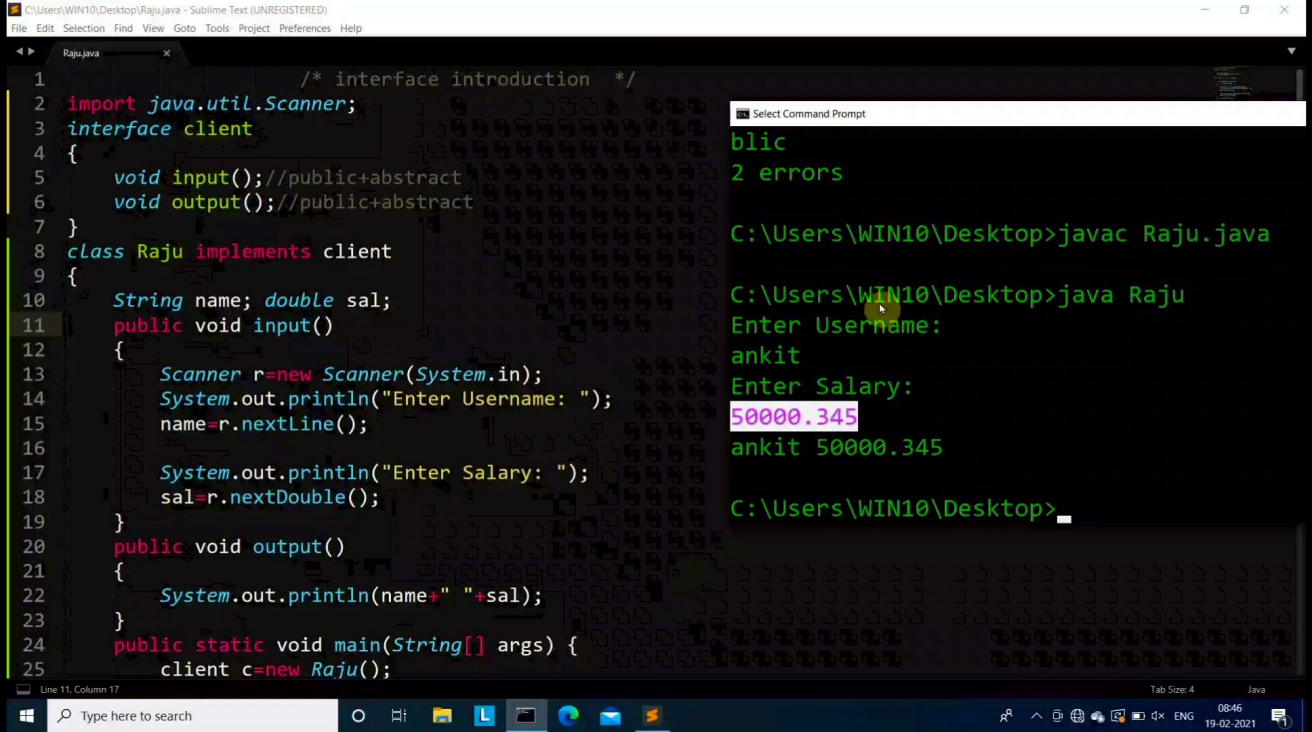
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Scanner r=new Scanner(System.in);
System.out.println("Enter Username: ");
name=r.nextLine();
System.out.println("Enter Salary: ");
sal=r.nextDouble();
}
public void output()
{
System.out.println(name+" "+sal);
}
public static void main(String[] args) {
client c=new Raju();
Select Command Prompt
blic
2 errors
C:\Users\WIN10\Desktop>javac Raju.java
C:\Users\WIN10\Desktop>java Raju
Enter Username:
ankit
Enter Salary:
50000.345
ankit 50000.345
C:\Users\WIN10\Desktop>
Line 11, Column 17
Tab Size: 4
Java
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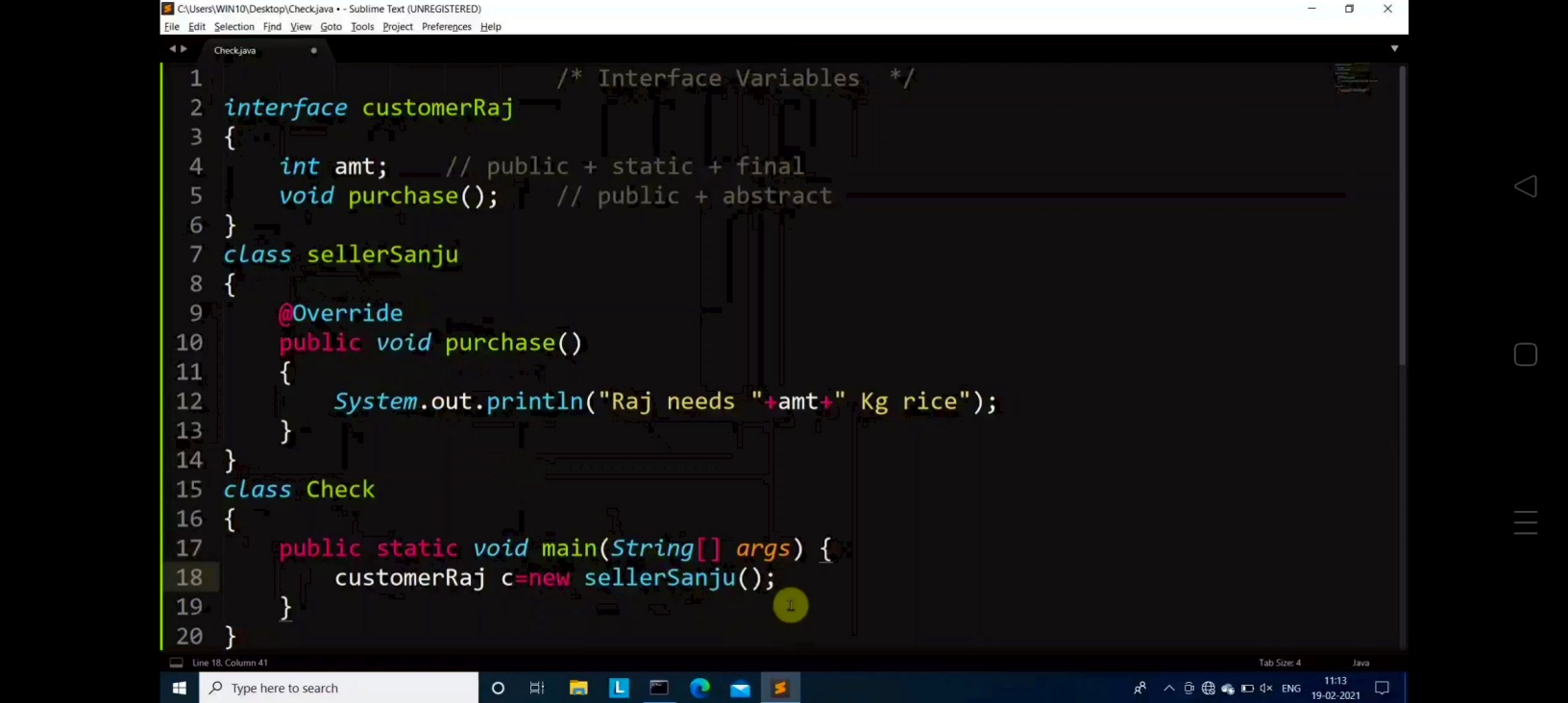
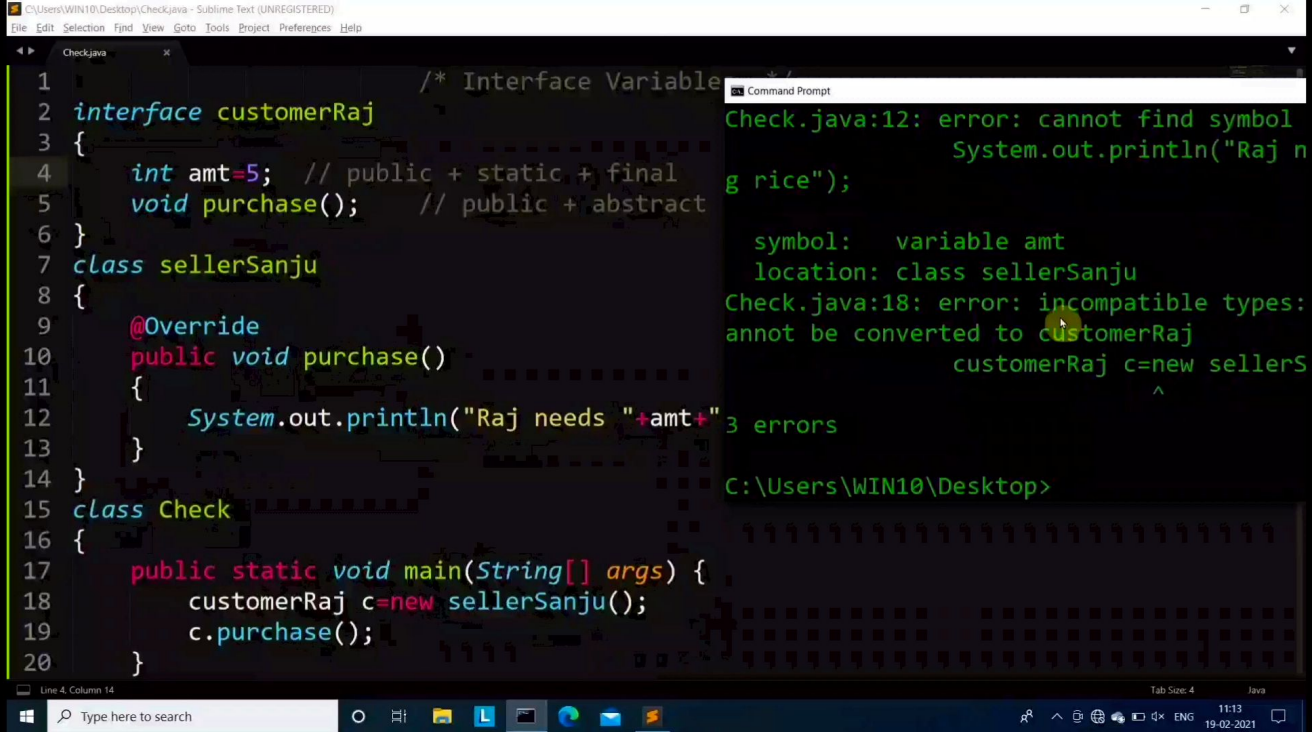
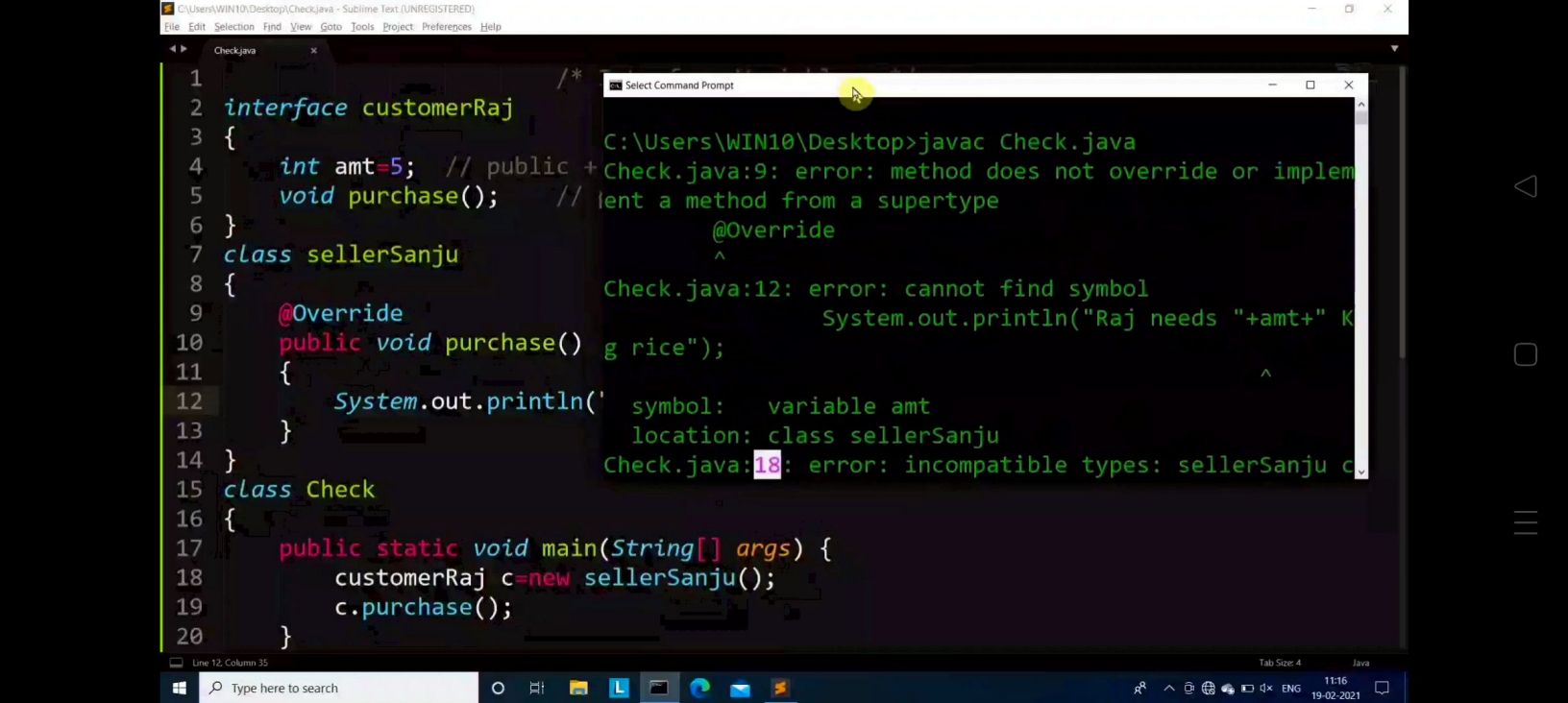
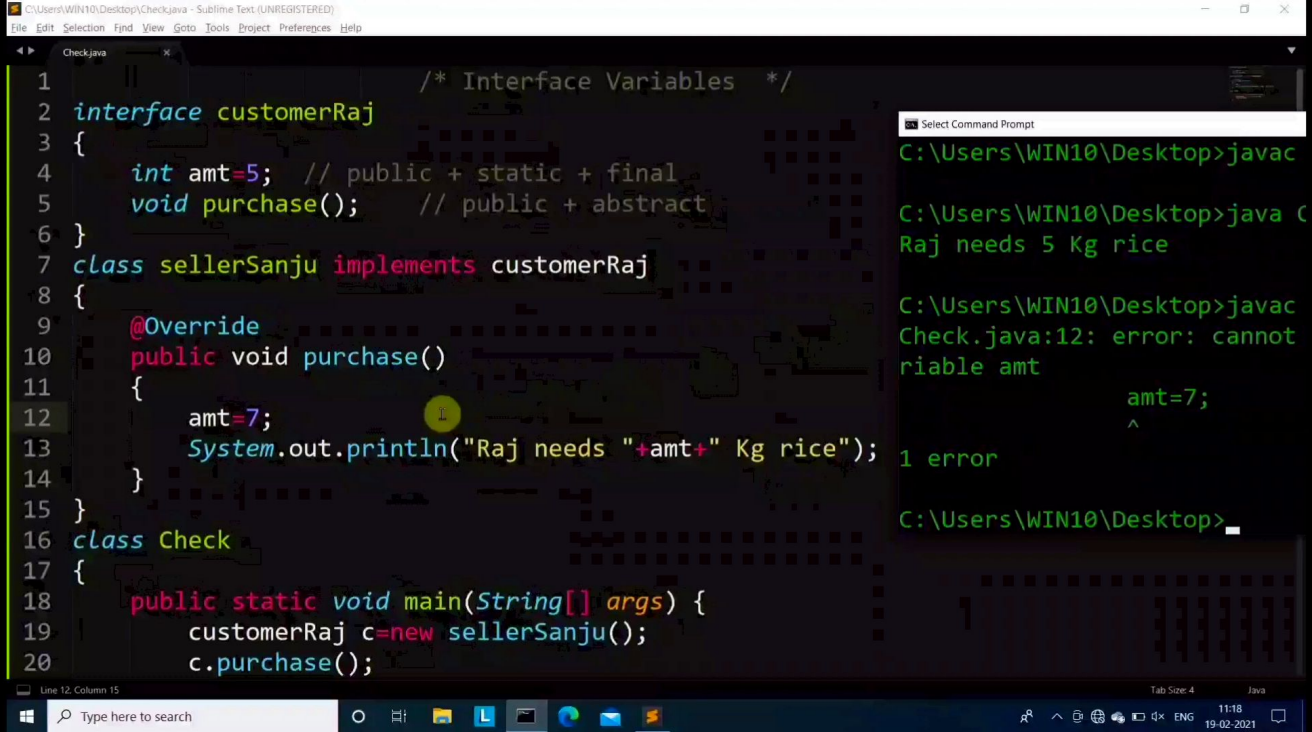
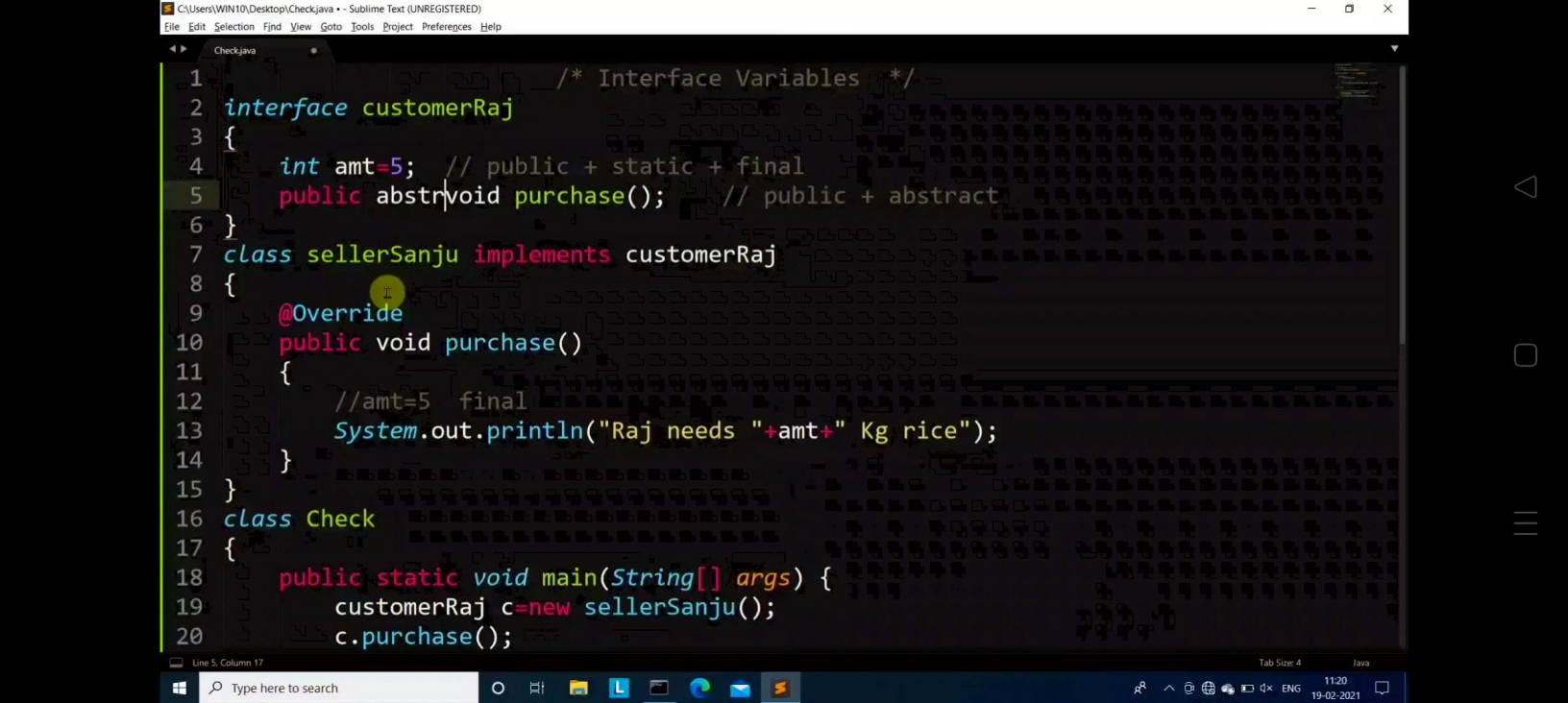

C:\Users\WIN10\Desktop\Check.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Variables */
interface customerRaj
{
int amt; // public + static + final
void purchase(); // public + abstract
}
class sellerSanju
{
@Override
public void purchase()
{
System.out.println("Raj needs "+amt+" Kg rice");
}
}
class Check
{
public static void main(String[] args) {
customerRaj c=new sellerSanju();
}
}
Line 18, Column 41
Tab Size: 4
Java
Type here to search
ENG
11:13
19-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
1 /* Interface Variable
2 interface customerRaj
3 {
4 int amt=5; // public + static + final
5 void purchase(); // public + abstract
6 }
7 class sellerSanju
8 {
9 @Override
10 public void purchase()
11 {
12 System.out.println("Raj needs "+amt+"
13 }
14 }
15 class Check
16 {
17 public static void main(String[] args) {
18 customerRaj c=new sellerSanju();
19 c.purchase();
20 }
Command Prompt
Check.java:12: error: cannot find symbol
System.out.println("Raj n
g rice");
symbol: variable amt
location: class sellerSanju
Check.java:18: error: incompatible types:
annot be converted to customerRaj
customerRaj c=new sellerS
^
3 errors
C:\Users\WIN10\Desktop>
Line 4, Column 14
Tab Size: 4
Java
Type here to search
ENG
11:13
19-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/*
interface customerRaj
{
int amt=5; // public +
void purchase(); //
}
class sellerSanju
{
@Override
public void purchase()
{
System.out.println('
}
}
class Check
{
public static void main(String[] args) {
customerRaj c=new sellerSanju();
c.purchase();
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Check.java
Check.java:9: error: method does not override or implem
ent a method from a supertype
@Override
^
Check.java:12: error: cannot find symbol
System.out.println("Raj needs "+amt+" K
g rice");
^
symbol: variable amt
location: class sellerSanju
Check.java:18: error: incompatible types: sellerSanju c
Line 12, Column 35
Tab Size: 4
Java
Type here to search
ENG
11:16
19-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
1 /* Interface Variables */
2 interface customerRaj
3 {
4 int amt=5; // public + static + final
5 void purchase(); // public + abstract
6 }
7 class sellerSanju implements customerRaj
8 {
9 @Override
10 public void purchase()
11 {
12 amt=7;
13 System.out.println("Raj needs "+amt+" Kg rice");
14 }
15 }
16 class Check
17 {
18 public static void main(String[] args) {
19 customerRaj c=new sellerSanju();
20 c.purchase();
Line 12, Column 15
Tab Size: 4
Java
Select Command Prompt
C:\Users\WIN10\Desktop>javac
C:\Users\WIN10\Desktop>java C
Raj needs 5 Kg rice
C:\Users\WIN10\Desktop>javac
Check.java:12: error: cannot
riable amt
amt=7;
^
1 error
C:\Users\WIN10\Desktop>
Type here to search
ENG
11:18
19-02-2021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File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Variables */
interface customerRaj
{
int amt=5; // public + static + final
public abstr void purchase(); // public + abstract
}
class sellerSanju implements customerRaj
{
@Override
public void purchase()
{
//amt=5 final
System.out.println("Raj needs "+amt+" Kg rice");
}
}
class Check
{
public static void main(String[] args) {
customerRaj c=new sellerSanju();
c.purchase();
Line 5, Column 17
Tab Size: 4
Java
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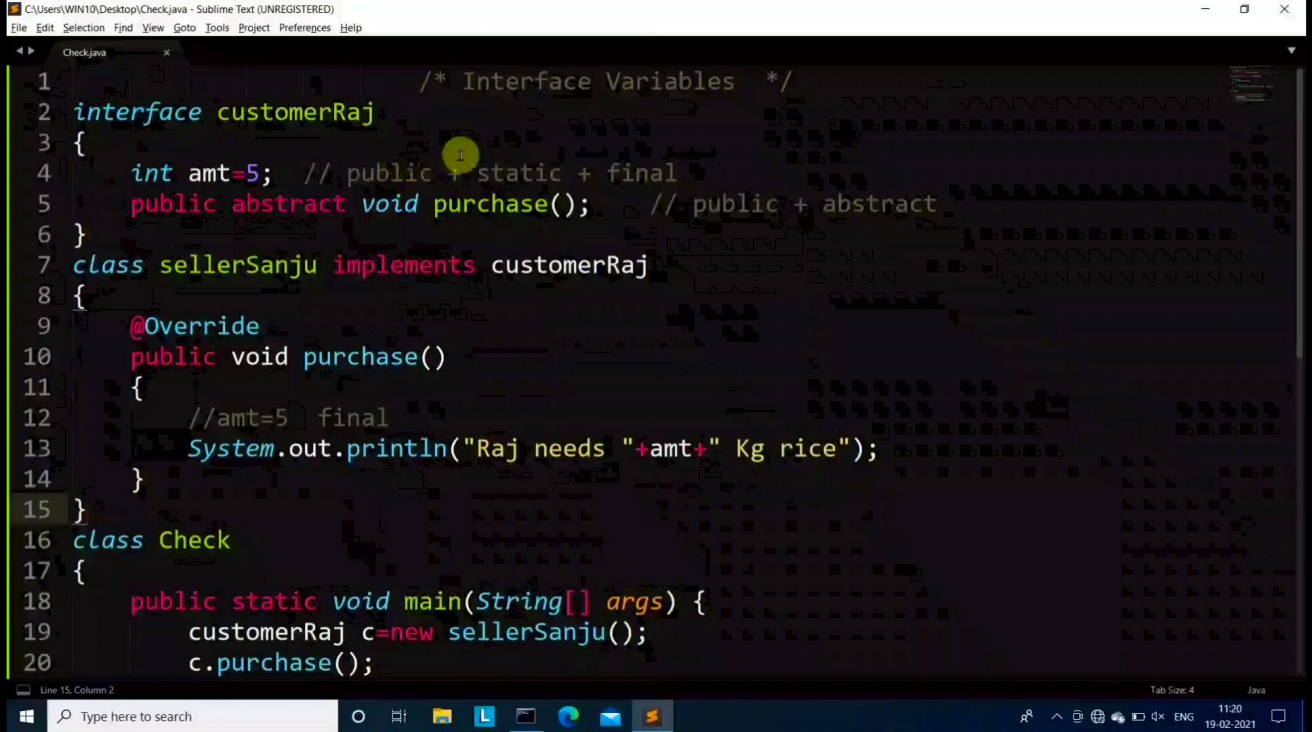
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File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Variables */
interface customerRaj
{
int amt=5; // public + static + final
public abstract void purchase(); // public + abstract
}
class sellerSanju implements customerRaj
{
@Override
public void purchase()
{
//amt=5 final
System.out.println("Raj needs "+amt+" Kg rice");
}
}
class Check
{
public static void main(String[] args) {
customerRaj c=new sellerSanju();
c.purchase();
Line 15, Column 2
Tab Size: 4
Java
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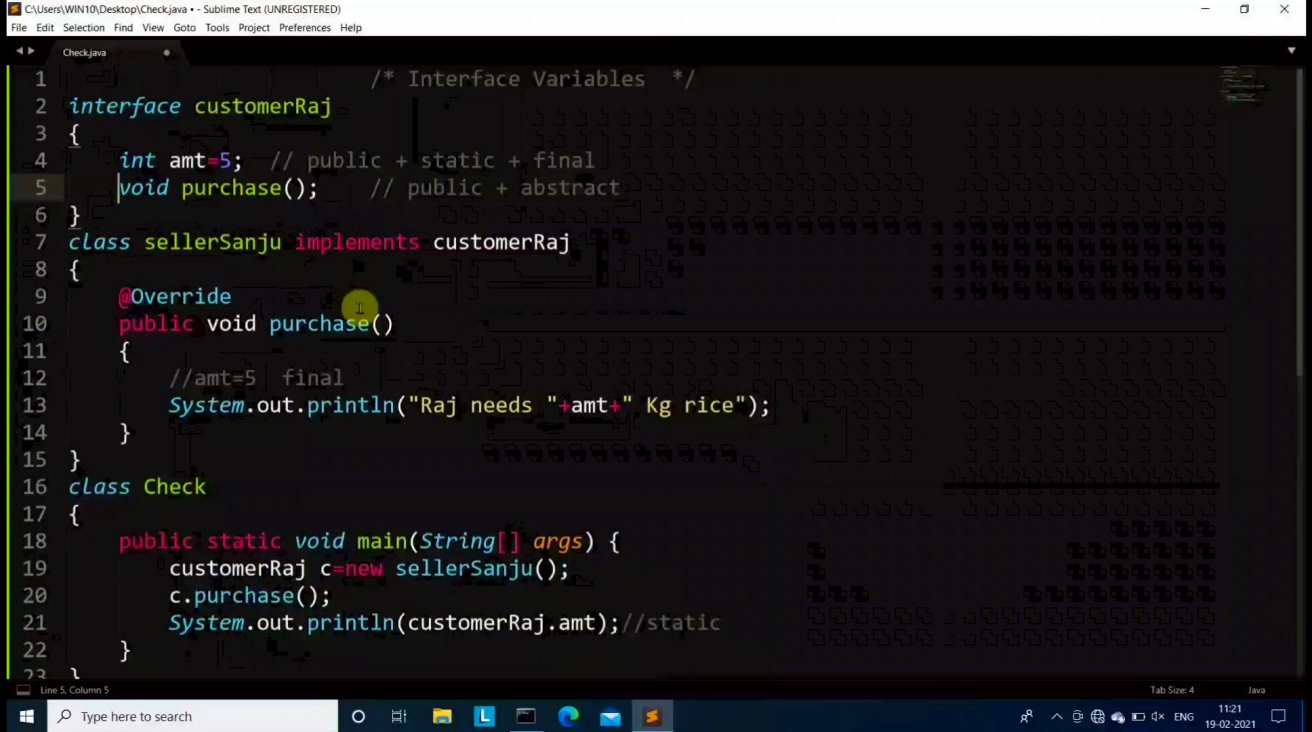
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void purchase(); // public + abstract
}
class sellerSanju implements customerRaj
{
@Override
public void purchase()
{
//amt=5 final
System.out.println("Raj needs "+amt+" Kg rice");
}
}
class Check
{
public static void main(String[] args) {
customerRaj c=new sellerSanju();
c.purchase();
System.out.println(customerRaj.amt);//static
}
Line 5, Column 5
Tab Size: 4
Java
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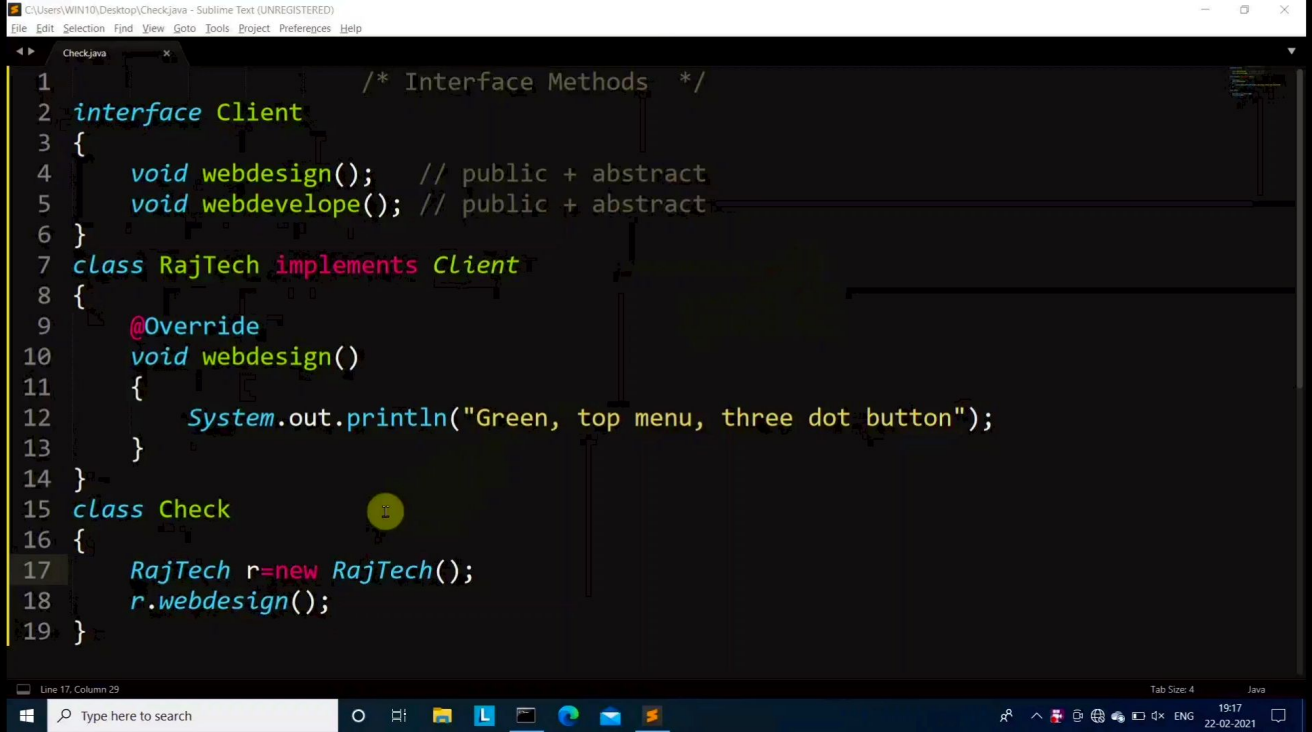
C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Methods */
interface Client
{
void webdesign(); // public + abstract
void webdevelope(); // public + abstract
}
class RajTech implements Client
{
@Override
void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
class Check
{
RajTech r=new RajTech();
r.webdesign();
}
Line 17, Column 29
Tab Size: 4
Java
Type here to search
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19:17
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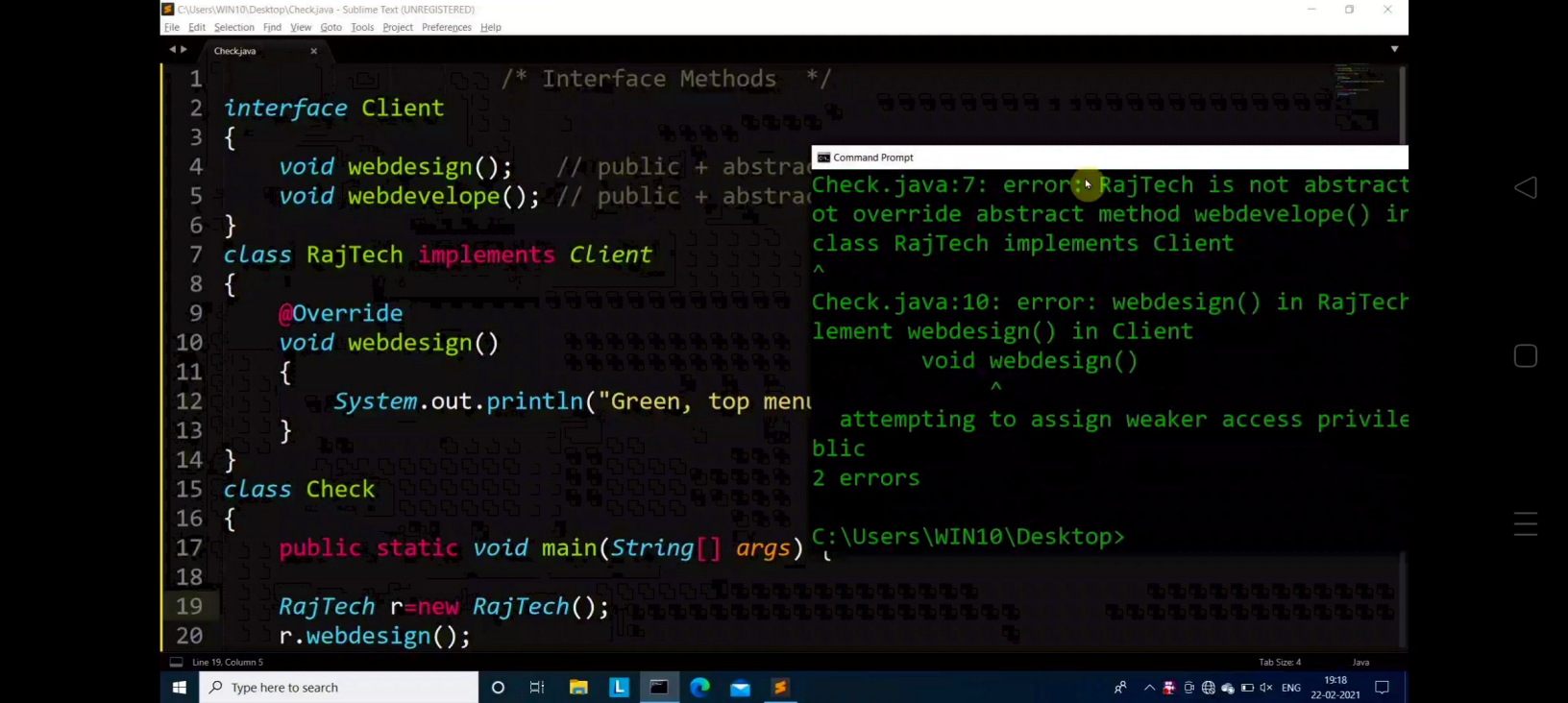
C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Methods */
interface Client
{
void webdesign(); // public + abstra
void webdevelope(); // public + abstra
}
class RajTech implements Client
{
@Override
void webdesign()
{
System.out.println("Green, top menu
}
}
class Check
{
public static void main(String[] args)
RajTech r=new RajTech();
r.webdesign();
Command Prompt
Check.java:7: error: RajTech is not abstract
ot override abstract method webdevelope() ir
class RajTech implements Client
^
Check.java:10: error: webdesign() in RajTech
lement webdesign() in Client
void webdesign()
^
attempting to assign weaker access privile
blic
2 errors
C:\Users\WIN10\Desktop>
Line 19, Column 5
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Java
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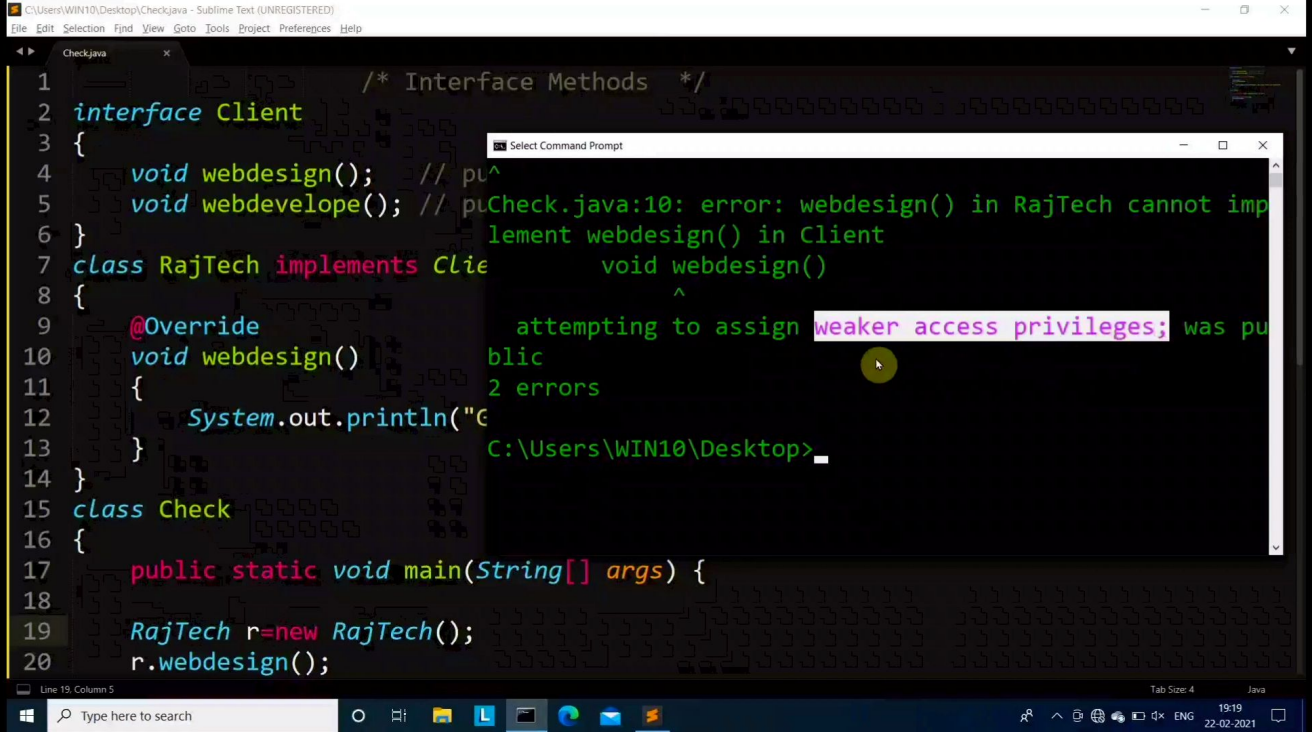
C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
1 /* Interface Methods */
2 interface Client
3 {
4 void webdesign(); // pu
5 void webdevelope(); // pu
6 }
7 class RajTech implements Clie
8 {
9 @Override
10 void webdesign()
11 {
12 System.out.println("C
13 }
14 }
15 class Check
16 {
17 public static void main(String[] args) {
18
19 RajTech r=new RajTech();
20 r.webdesign();
Select Command Prompt
^
Check.java:10: error: webdesign() in RajTech cannot imp
lement webdesign() in Client
void webdesign()
^
attempting to assign weaker access privileges; was pu
blic
2 errors
C:\Users\WIN10\Desktop>
Line 19, Column 5
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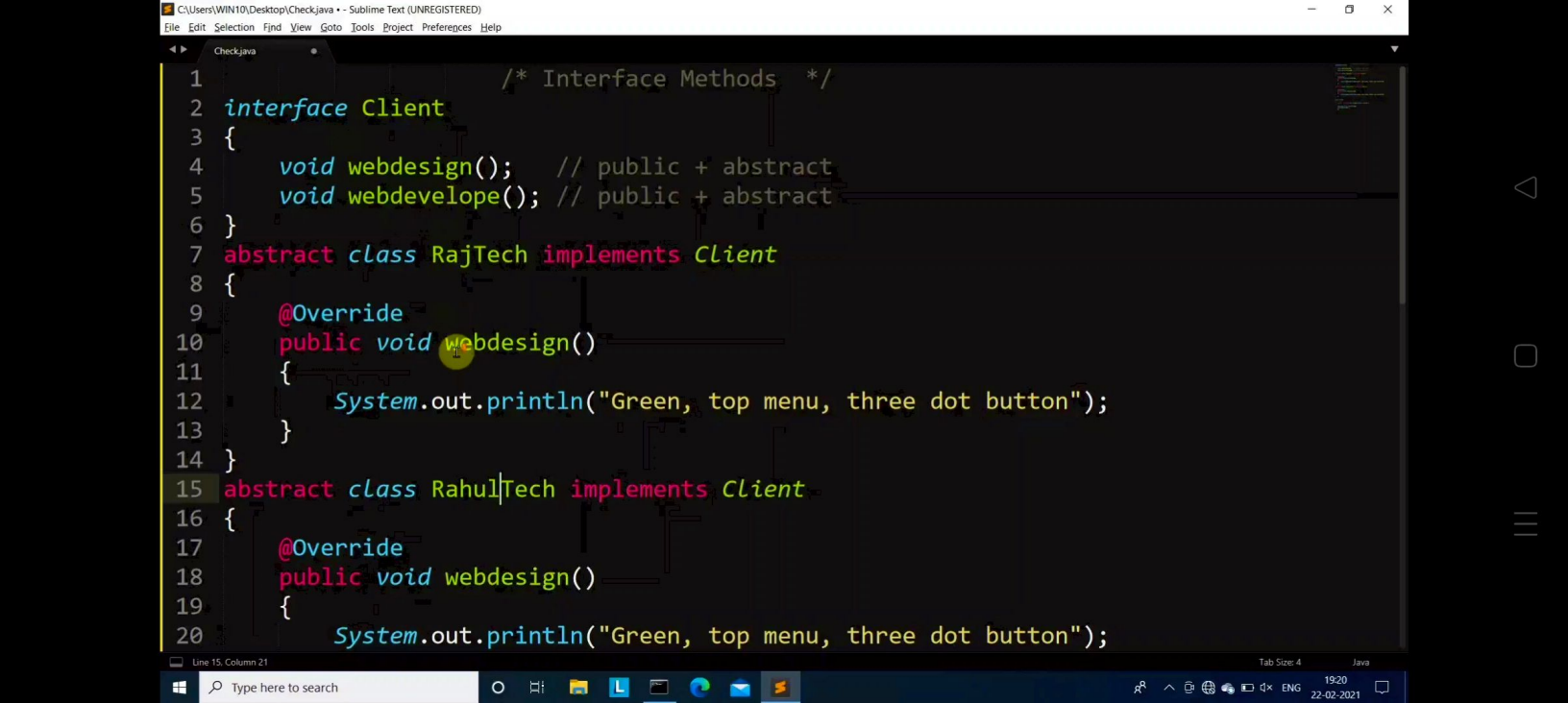
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{
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void webdevelope(); // public + abstract
}
abstract class RajTech implements Client
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
abstract class RahulTech implements Client
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
Line 15, Column 21
Tab Size: 4
Java
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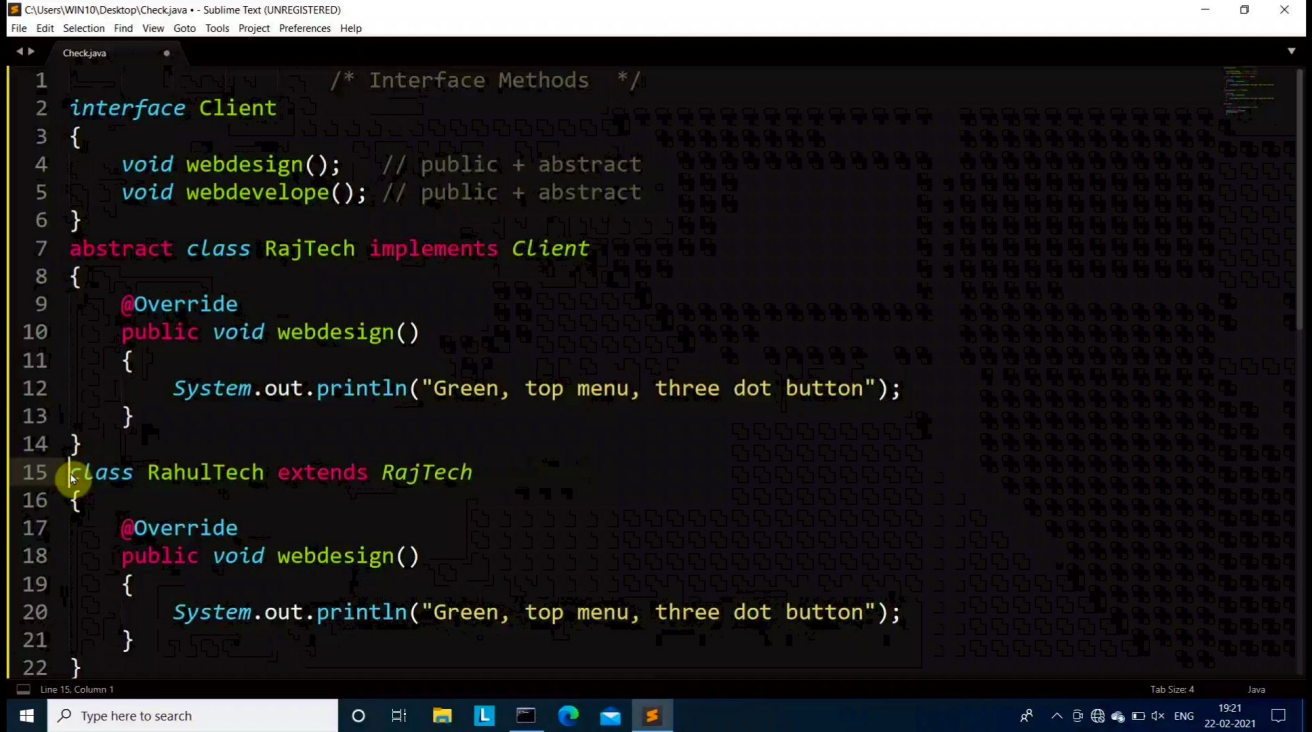
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void webdevelope(); // public + abstract
}
abstract class RajTech implements Client
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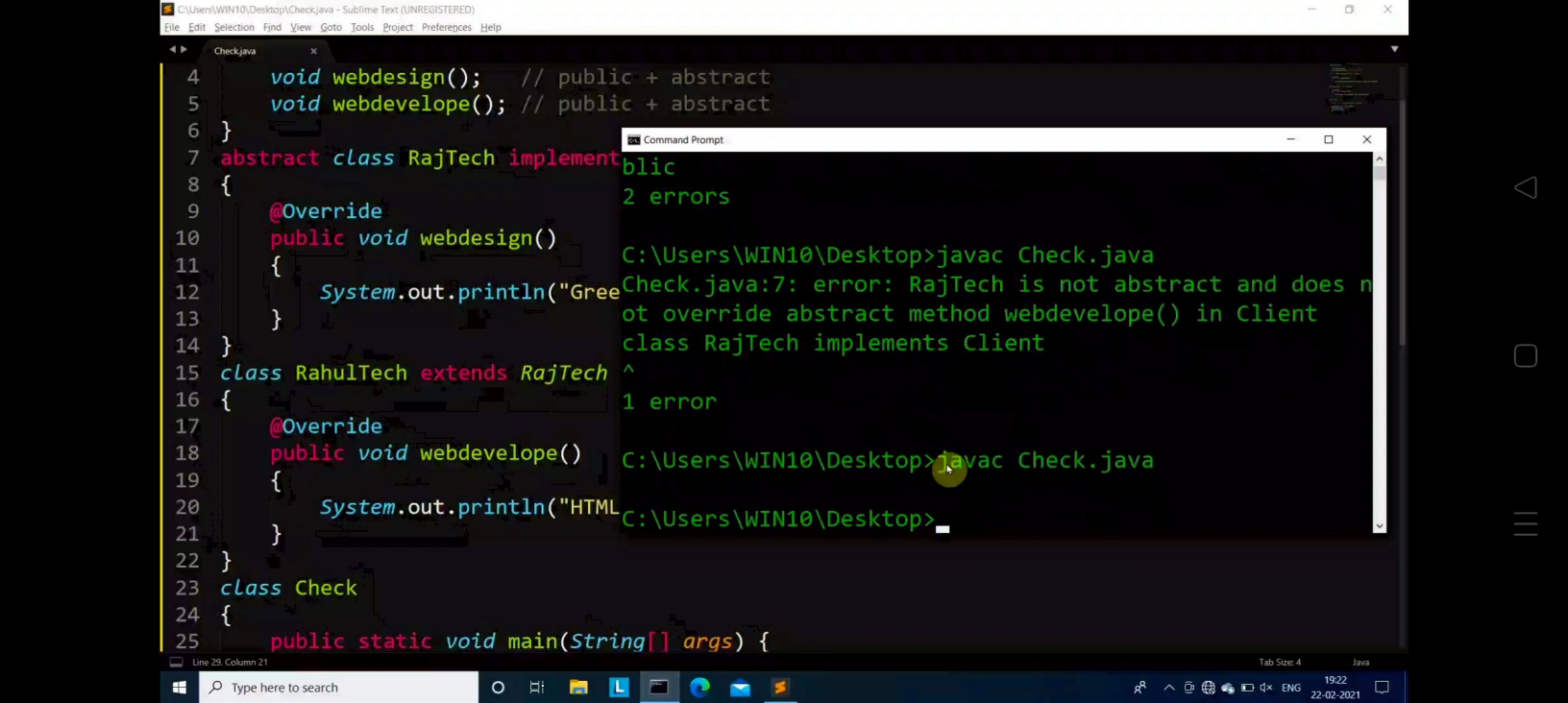
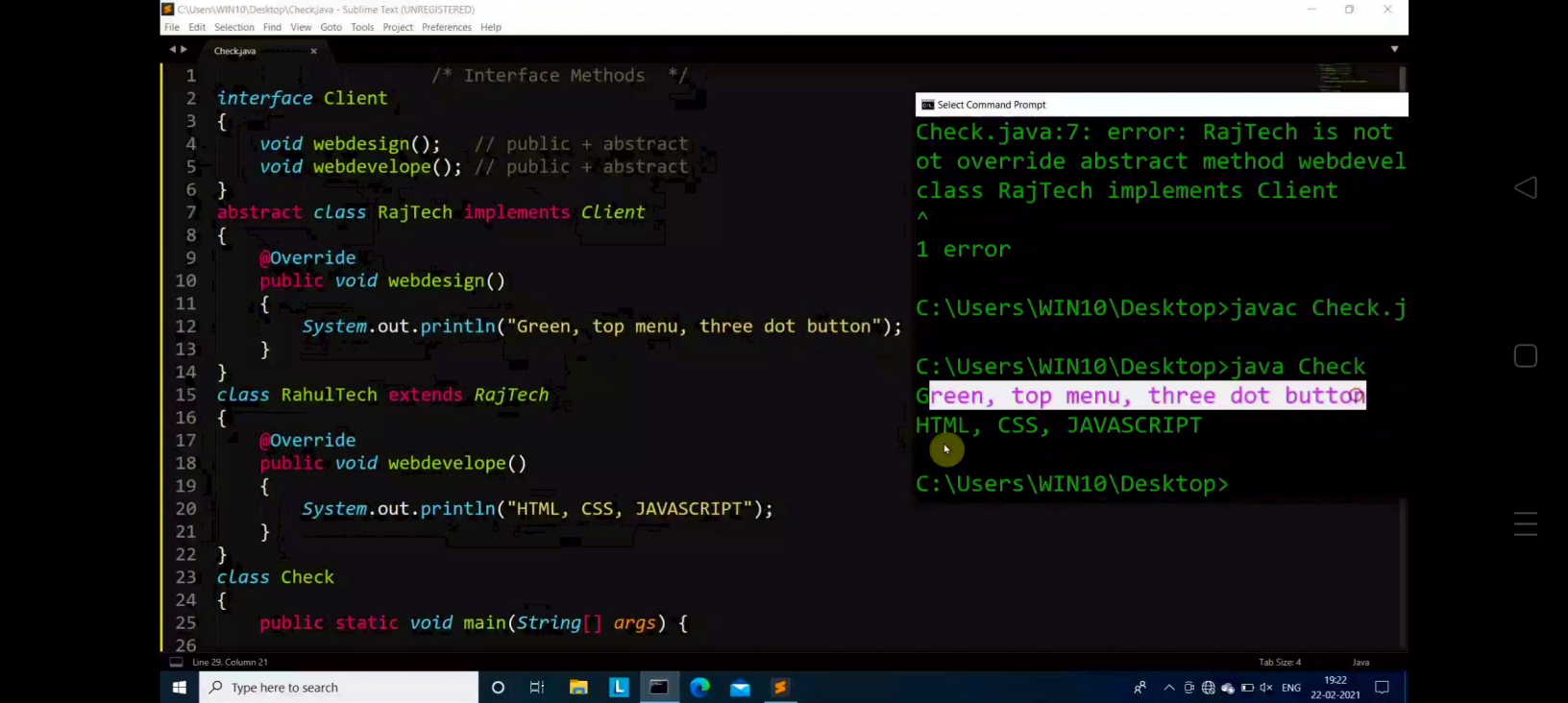
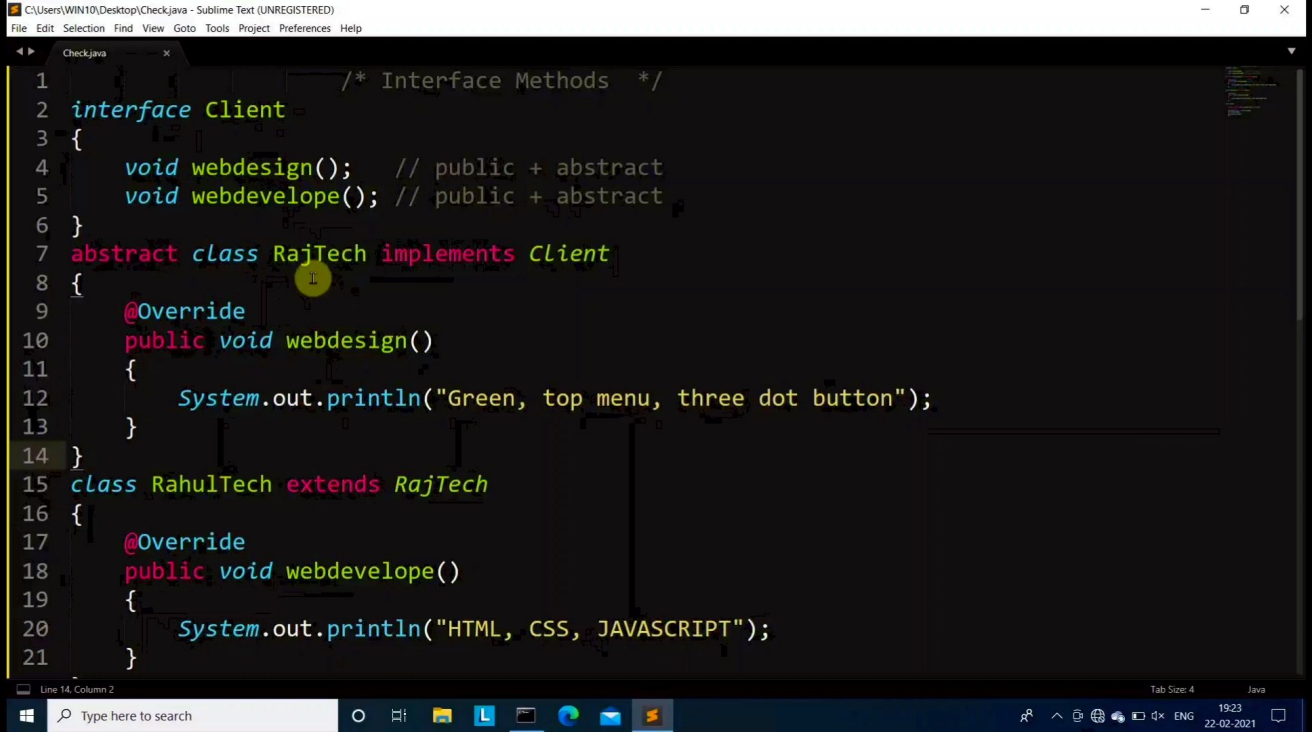
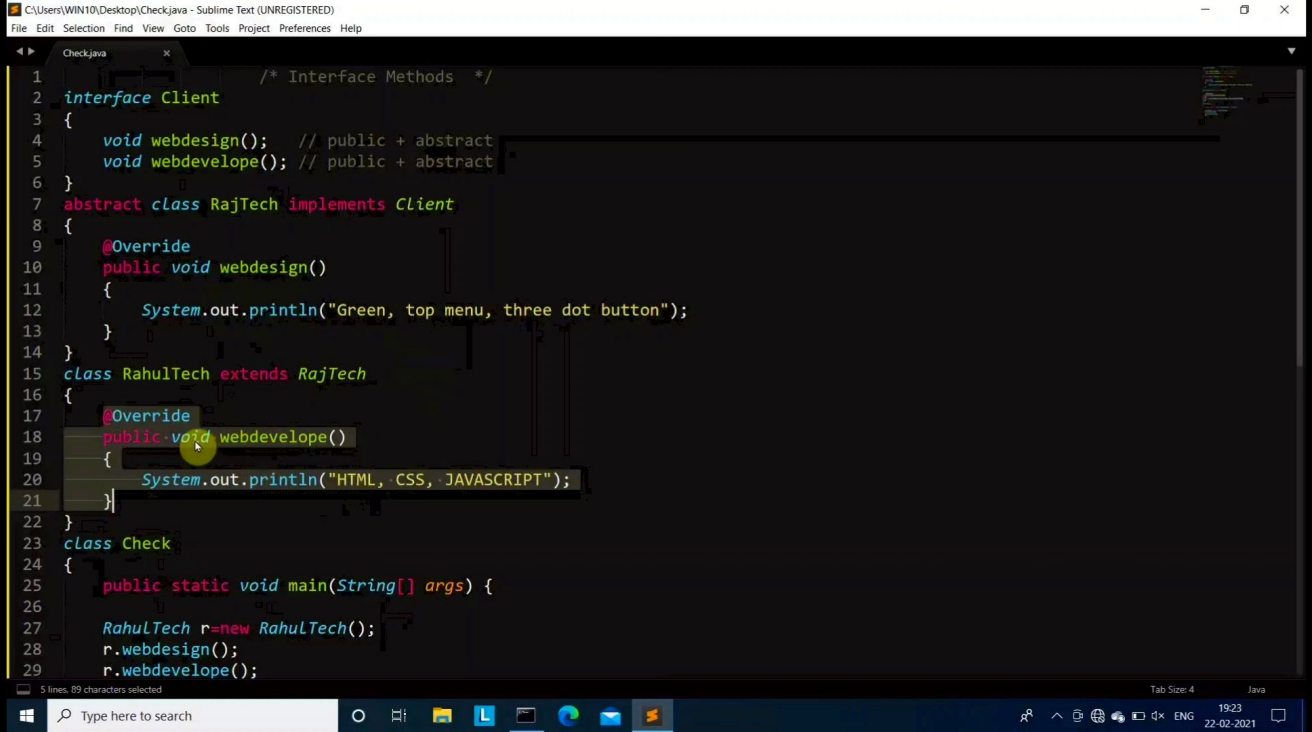
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
class RahulTech extends RajTech
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
Line 15, Column 1
Tab Size: 4
Java
Type here to search
ENG
19:21
22-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
4 void webdesign(); // public + abstract
5 void webdevelope(); // public + abstract
6 }
7 abstract class RajTech implement
8 {
9 @Override
10 public void webdesign()
11 {
12 System.out.println("Gree
13 }
14 }
15 class RahulTech extends RajTech
16 {
17 @Override
18 public void webdevelope()
19 {
20 System.out.println("HTML
21 }
22 }
23 class Check
24 {
25 public static void main(String[] args) {
Command Prompt
blic
2 errors
C:\Users\WIN10\Desktop>javac Check.java
Check.java:7: error: RajTech is not abstract and does n
ot override abstract method webdevelope() in Client
class RajTech implements Client
^
1 error
C:\Users\WIN10\Desktop>javac Check.java
C:\Users\WIN10\Desktop>
Line 29, Column 21
Tab Size: 4
Java
Type here to search
ENG
19:22
22-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Methods */
interface Client
{
void webdesign(); // public + abstract
void webdevelope(); // public + abstract
}
abstract class RajTech implements Client
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
class RahulTech extends RajTech
{
@Override
public void webdevelope()
{
System.out.println("HTML, CSS, JAVASCRIPT");
}
}
class Check
{
public static void main(String[] args) {
Line 29, Column 21
Tab Size: 4
Java
Select Command Prompt
Check.java:7: error: RajTech is not
ot override abstract method webdevel
class RajTech implements Client
^
1 error
C:\Users\WIN10\Desktop>javac Check.j
C:\Users\WIN10\Desktop>java Check
Green, top menu, three dot button
HTML, CSS, JAVASCRIPT
C:\Users\WIN10\Desktop>
Type here to search
ENG
19:22
22-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Methods */
interface Client
{
void webdesign(); // public + abstract
void webdevelope(); // public + abstract
}
abstract class RajTech implements Client
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
class RahulTech extends RajTech
{
@Override
public void webdevelope()
{
System.out.println("HTML, CSS, JAVASCRIPT");
}
Line 14, Column 2
Tab Size: 4
Java
Type here to search
ENG
19:23
22-02-2021


C:\Users\WIN10\Desktop\Check.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Check.java
/* Interface Methods */
interface Client
{
void webdesign(); // public + abstract
void webdevelope(); // public + abstract
}
abstract class RajTech implements Client
{
@Override
public void webdesign()
{
System.out.println("Green, top menu, three dot button");
}
}
class RahulTech extends RajTech
{
@Override
public void webdevelope()
{
System.out.println("HTML, CSS, JAVASCRIPT");
}
}
class Check
{
public static void main(String[] args) {
RahulTech r=new RahulTech();
r.webdesign();
r.webdevelope();
5 lines, 89 characters selected
Tab Size: 4
Java
Type here to search
ENG
19:23
22-02-2021

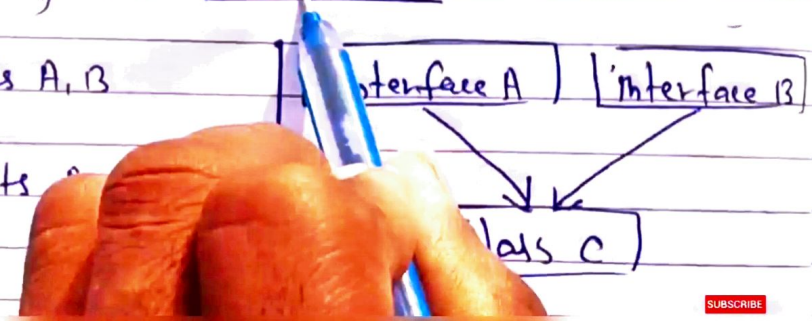
Multiple inheritance

Q. multiple inheritance using interface ?

Ans→ We Can achieve multiple inheritance through interfaces because interface contains only abstract method, which implementation is provided by the Sub classes.

Note:- class C extends A, B

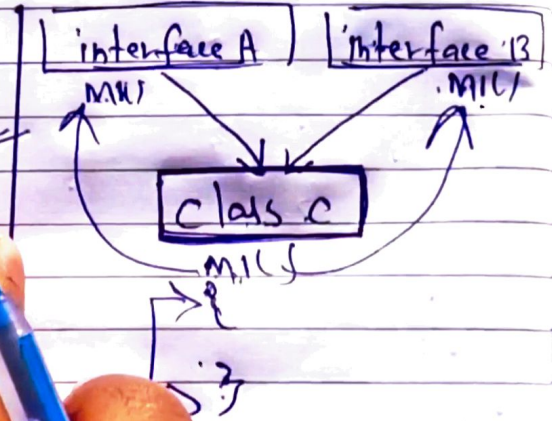
class C implements

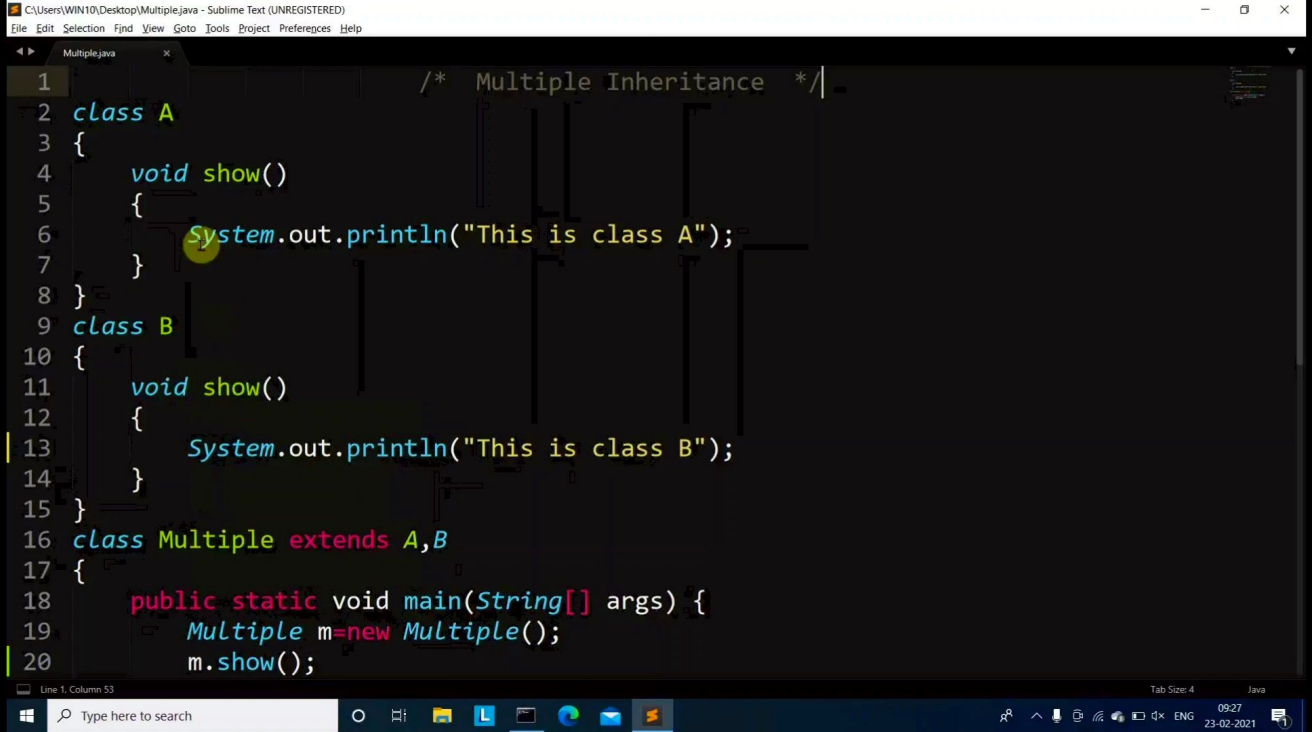


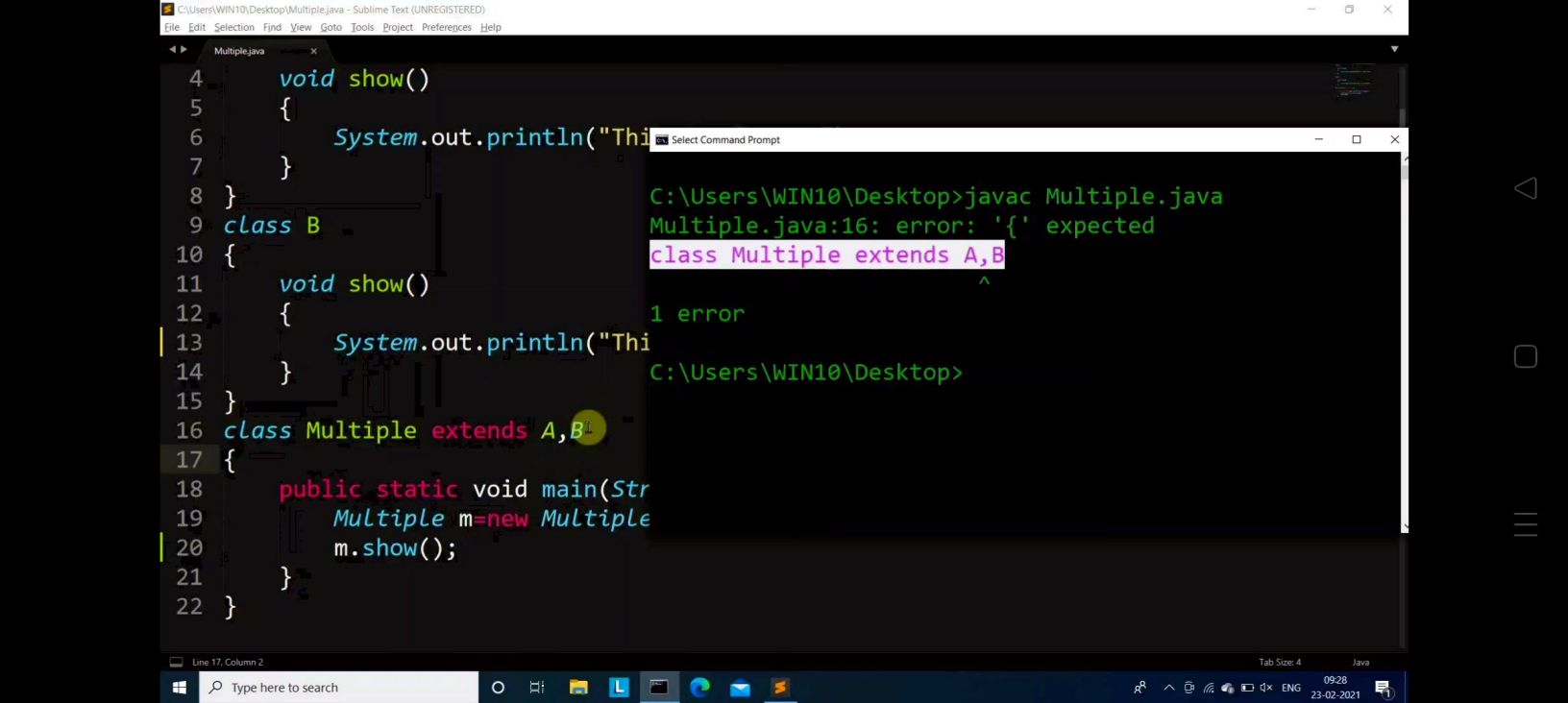
only abstract method, which implementation is provided by the Sub classes.

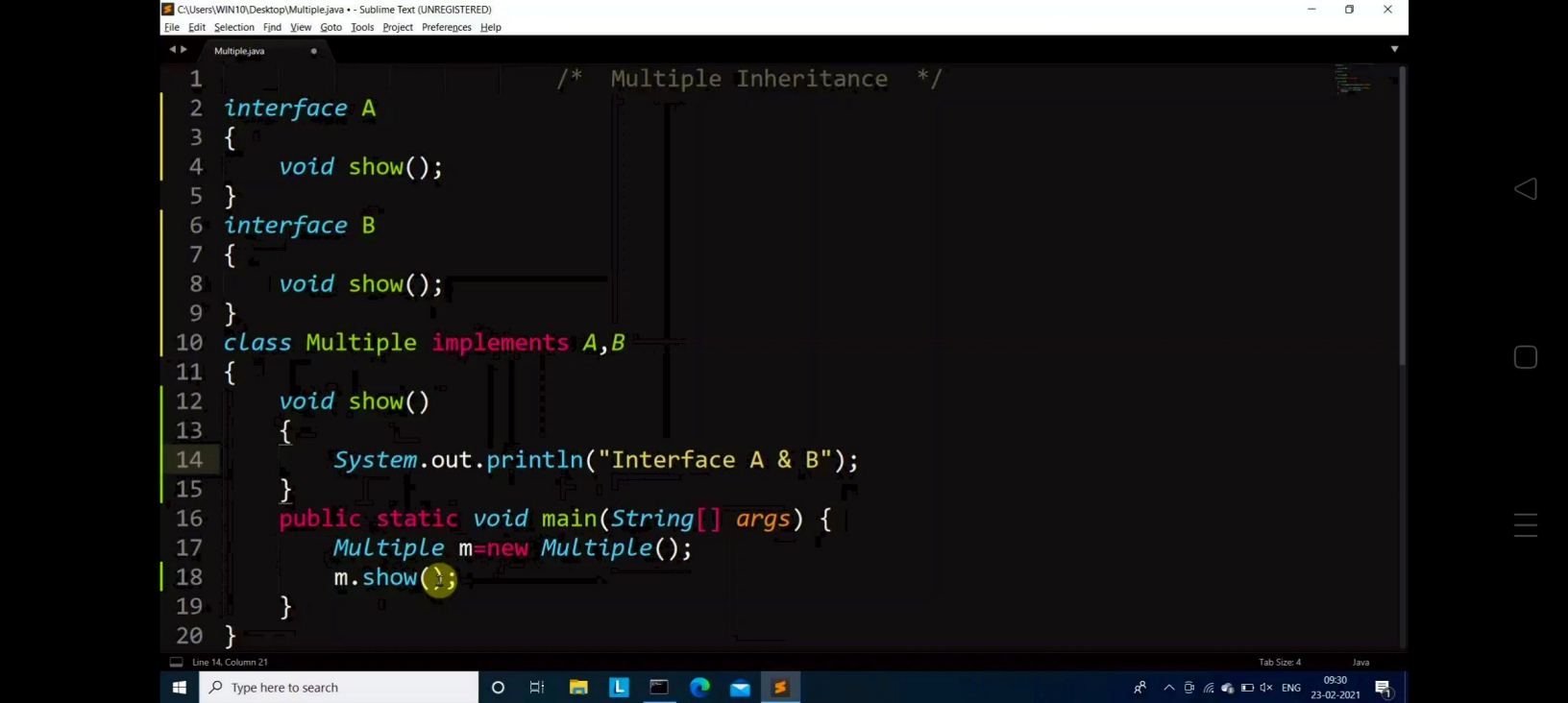
Note:- class C extends A, B ✗

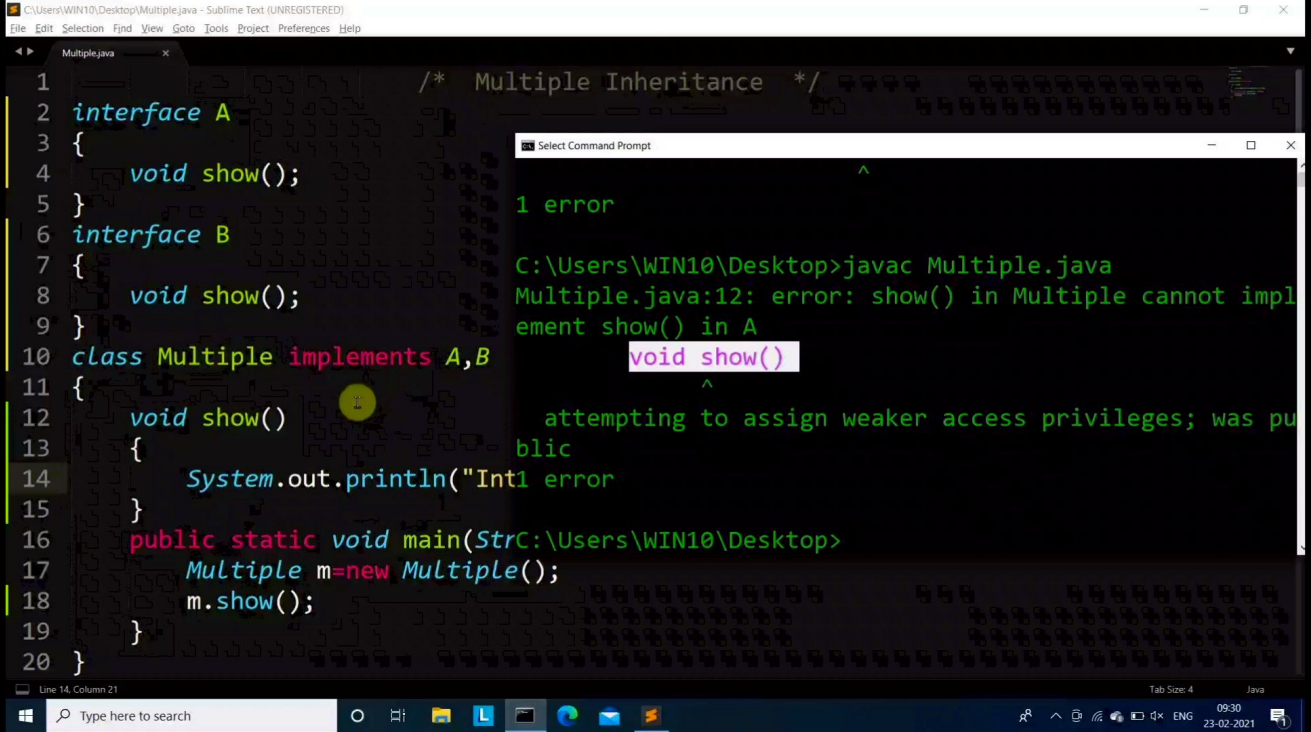
class C implements A, B ✓

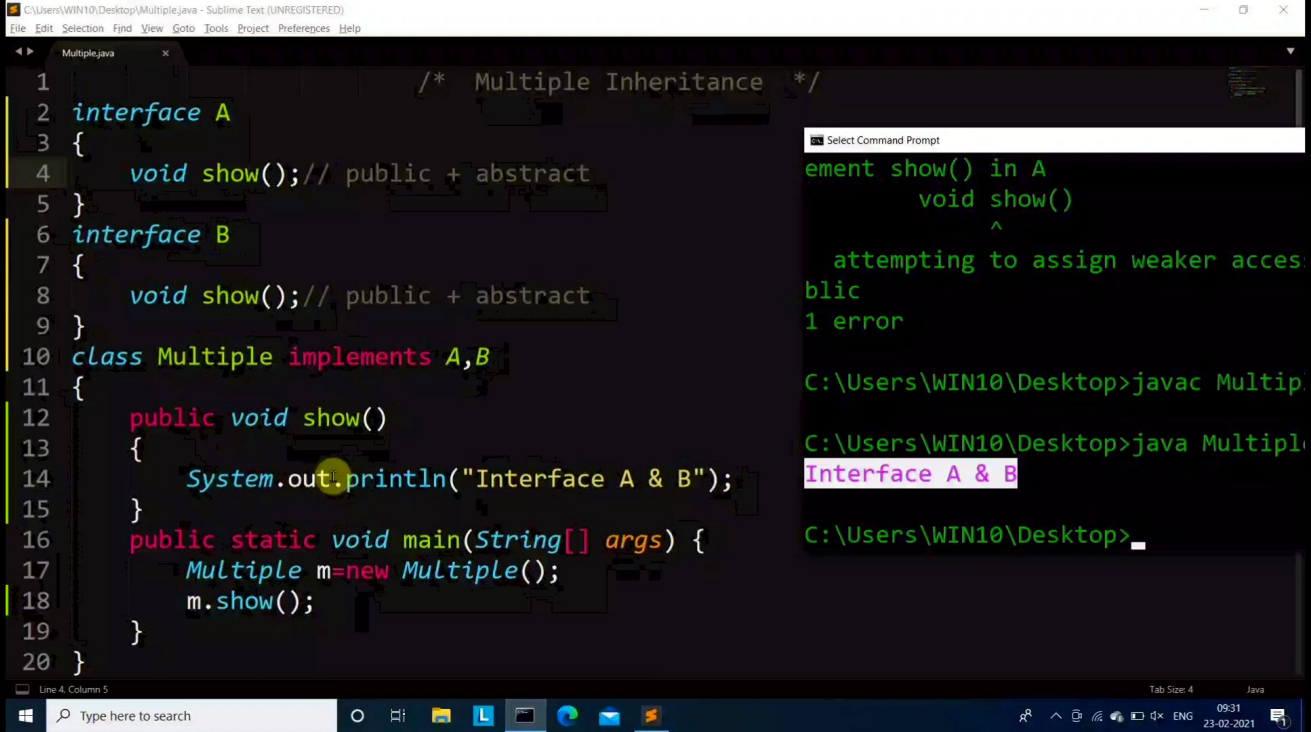


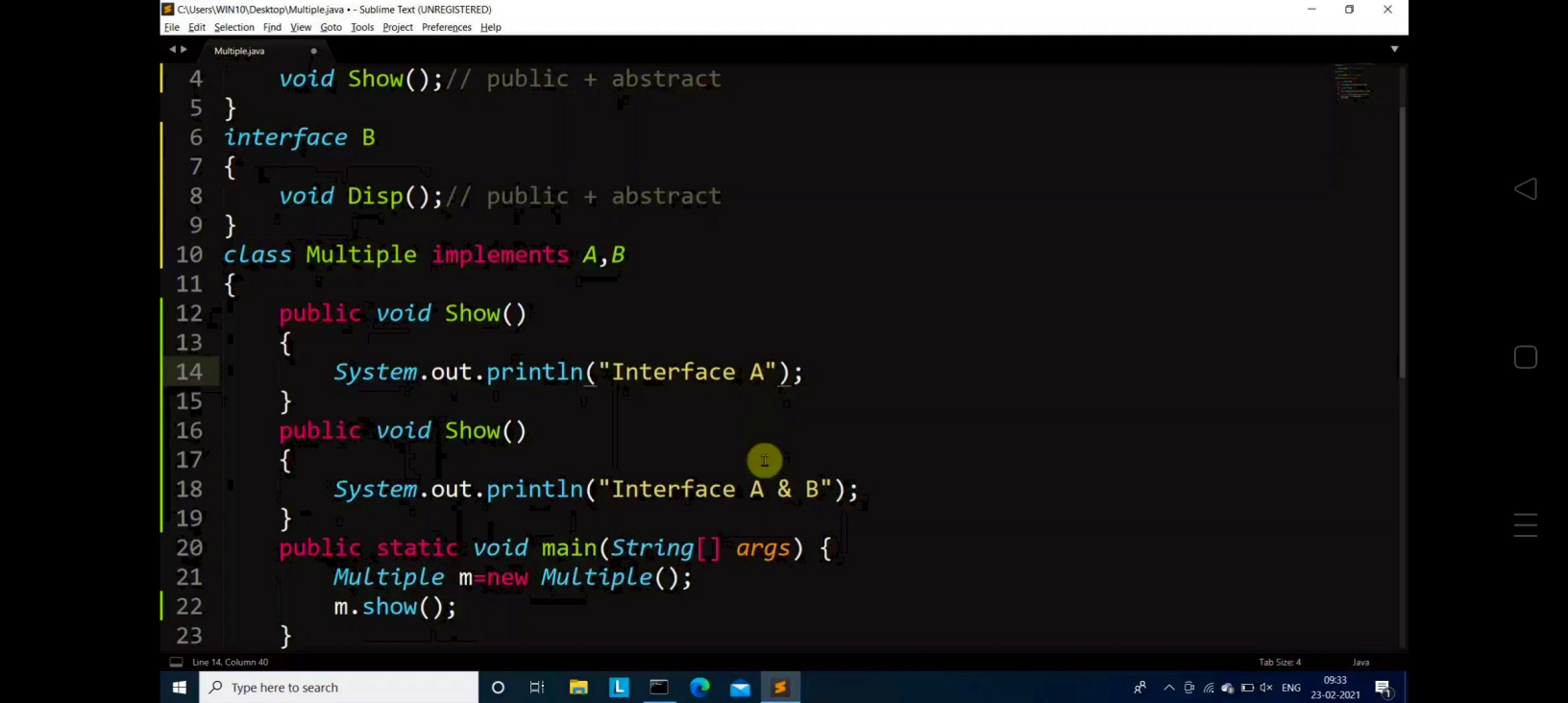

C:\Users\WIN10\Desktop\Multiple.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
/* Multiple Inheritance */
class A
{
void show()
{
System.out.println("This is class A");
}
}
class B
{
void show()
{
System.out.println("This is class B");
}
}
class Multiple extends A,B
{
public static void main(String[] args) {
Multiple m=new Multiple();
m.show();
Line 1, Column 53
Tab Size: 4
Java
Type here to search
ENG
09:27
23-02-2021

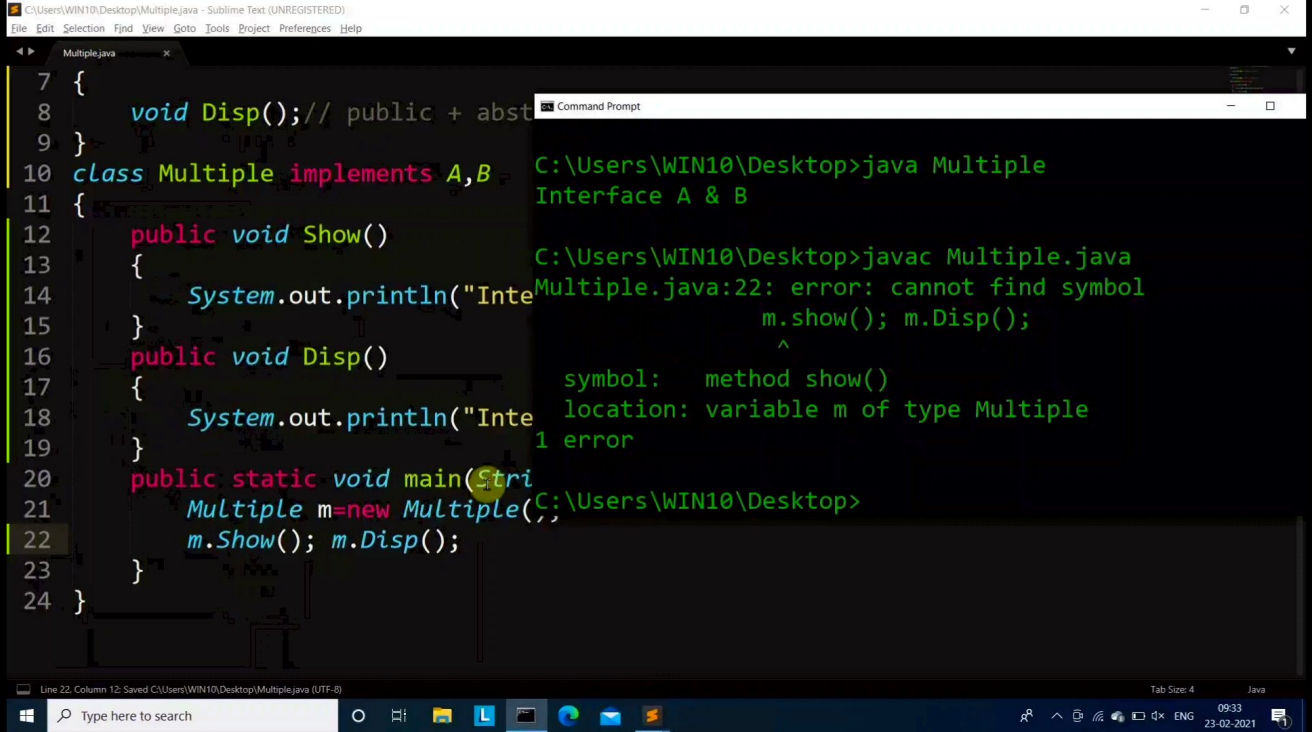

C:\Users\WIN10\Desktop\Multiple.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
4 void show()
5 {
6 System.out.println("Thi
7 }
8 }
9 class B
10 {
11 void show()
12 {
13 System.out.println("Thi
14 }
15 }
16 class Multiple extends A,B
17 {
18 public static void main(Str
19 Multiple m=new Multiple
20 m.show();
21 }
22 }
Select Command Prompt
C:\Users\WIN10\Desktop>javac Multiple.java
Multiple.java:16: error: '{' expected
class Multiple extends A,B
^
1 error
C:\Users\WIN10\Desktop>
Line 17, Column 2
Tab Size: 4
Java
Type here to search
ENG
09:28
23-02-2021

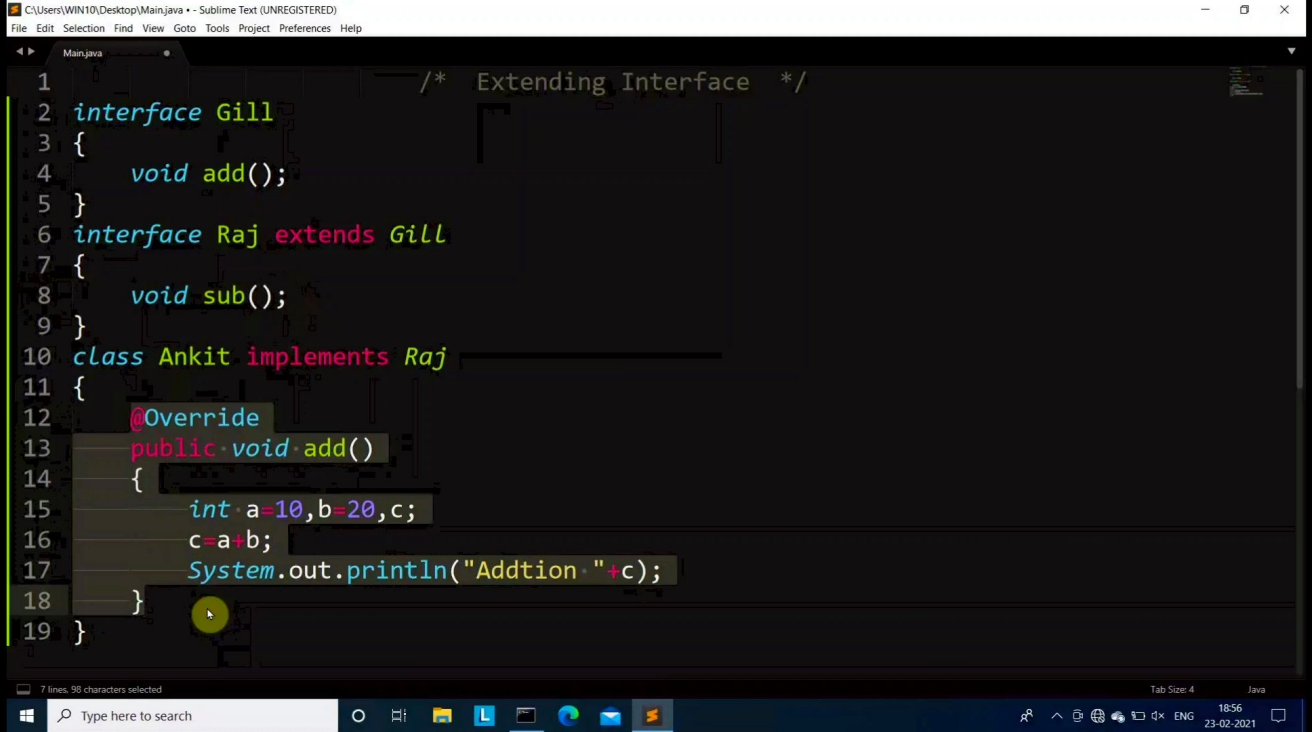

C:\Users\WIN10\Desktop\Multiple.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
/* Multiple Inheritance */
interface A
{
void show();
}
interface B
{
void show();
}
class Multiple implements A,B
{
void show()
{
System.out.println("Interface A & B");
}
public static void main(String[] args) {
Multiple m=new Multiple();
m.show();
}
}
Line 14, Column 21
Tab Size: 4
Java
Type here to search
ENG
09:30
23-02-2021

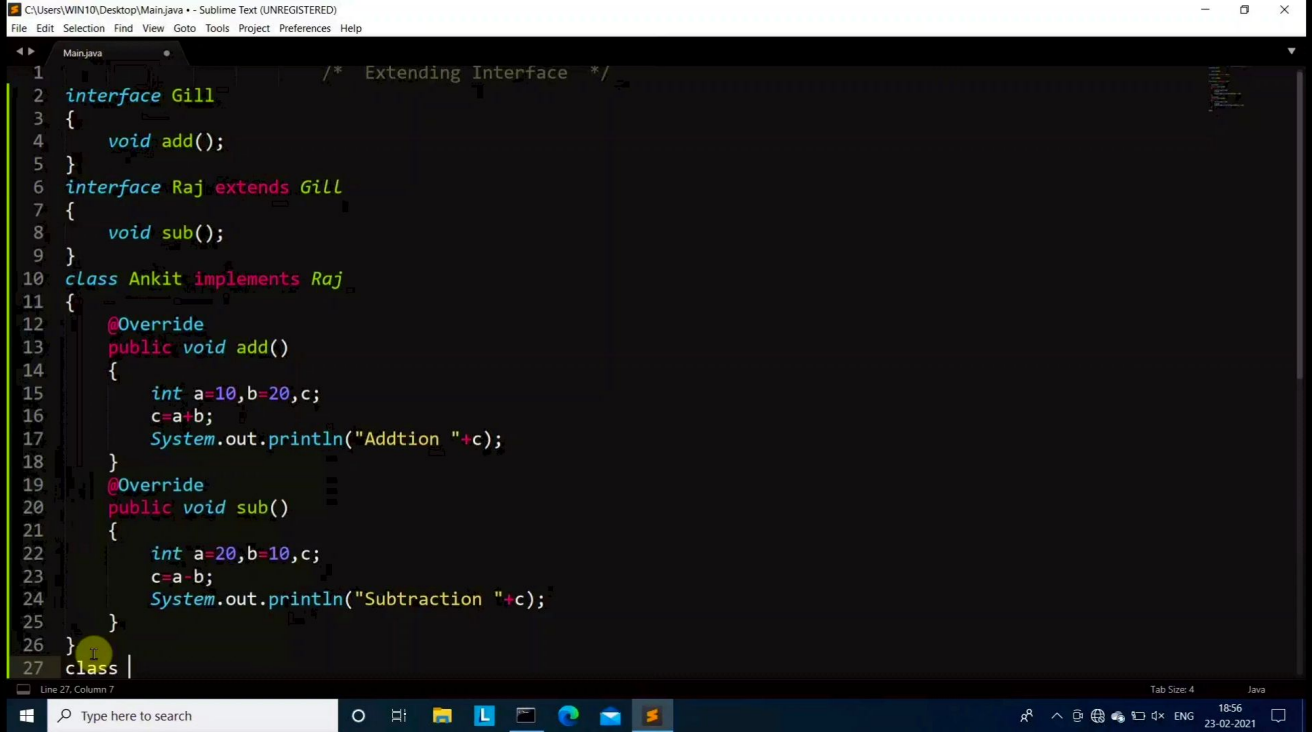

C:\Users\WIN10\Desktop\Multiple.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
/* Multiple Inheritance */
interface A
{
void show();
}
interface B
{
void show();
}
class Multiple implements A,B
{
void show()
{
System.out.println("Int
}
public static void main(Str
Multiple m=new Multiple();
m.show();
}
}
Select Command Prompt
^
1 error
C:\Users\WIN10\Desktop>javac Multiple.java
Multiple.java:12: error: show() in Multiple cannot impl
ement show() in A
void show()
^
attempting to assign weaker access privileges; was pu
blic
1 error
C:\Users\WIN10\Desktop>
Line 14, Column 21
Tab Size: 4
Java
Type here to search
ENG
09:30
23-02-2021

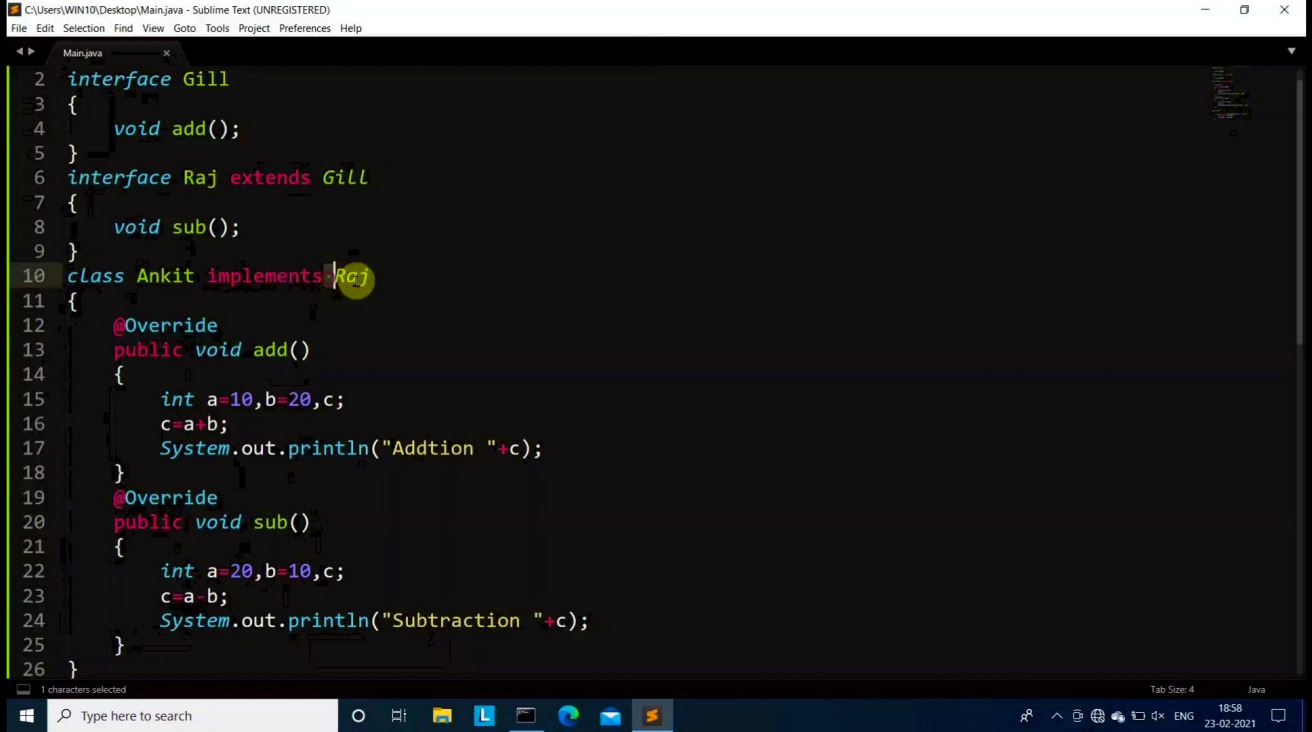

C:\Users\WIN10\Desktop\Multiple.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
/* Multiple Inheritance */
interface A
{
void show();// public + abstract
}
interface B
{
void show();// public + abstract
}
class Multiple implements A,B
{
public void show()
{
System.out.println("Interface A & B");
}
public static void main(String[] args) {
Multiple m=new Multiple();
m.show();
}
}
Select Command Prompt
ement show() in A
void show()
^
attempting to assign weaker acces
blic
1 error
C:\Users\WIN10\Desktop>javac Multip
C:\Users\WIN10\Desktop>java Multipl
Interface A & B
C:\Users\WIN10\Desktop>
Line 4, Column 5
Tab Size: 4
Java
Type here to search
ENG
09:31
23-02-2021

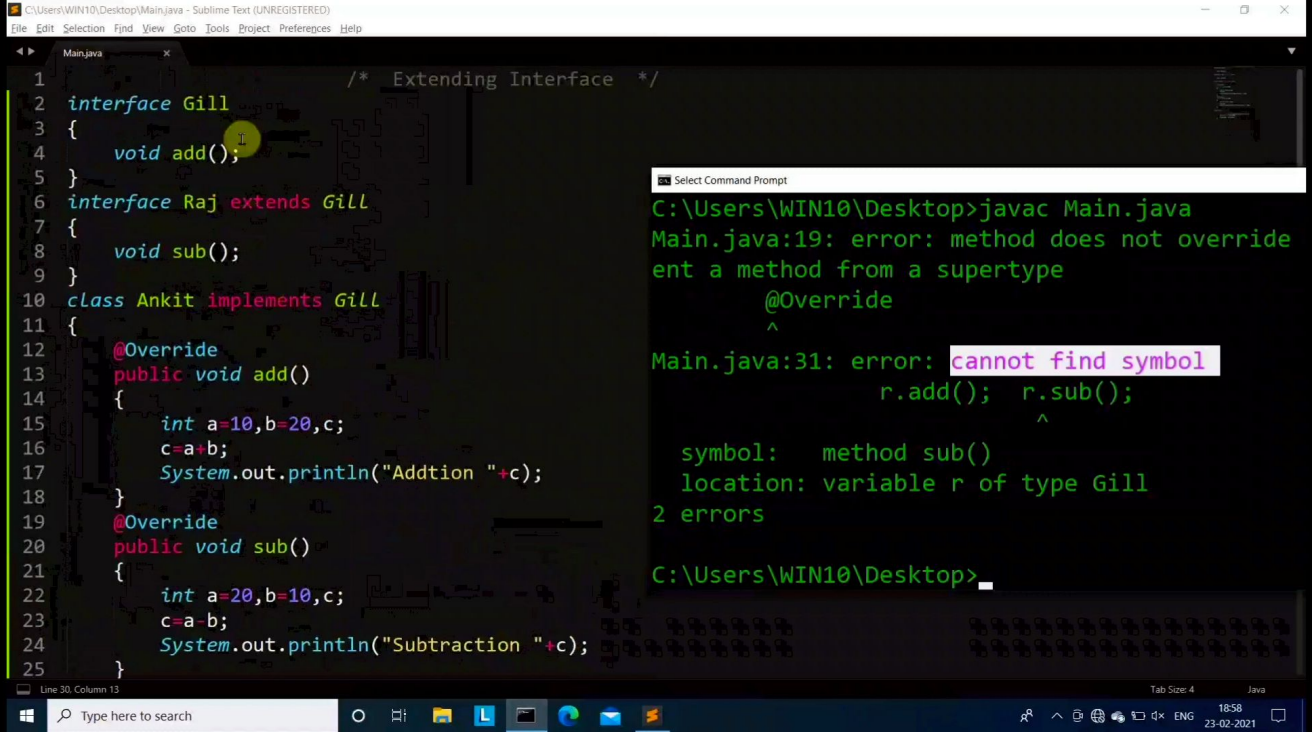

C:\Users\WIN10\Desktop\Multiple.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
4 void Show();// public + abstract
5 }
6 interface B
7 {
8 void Disp();// public + abstract
9 }
10 class Multiple implements A,B
11 {
12 public void Show()
13 {
14 System.out.println("Interface A");
15 }
16 public void Show()
17 {
18 System.out.println("Interface A & B");
19 }
20 public static void main(String[] args) {
21 Multiple m=new Multiple();
22 m.show();
23 }
Line 14, Column 40
Tab Size: 4
Java
Type here to search
ENG
09:33
23-02-2021


C:\Users\WIN10\Desktop\Multiple.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Multiple.java
{
void Disp();// public + abst
}
class Multiple implements A,B
{
public void Show()
{
System.out.println("Inte
}
public void Disp()
{
System.out.println("Inte
}
public static void main(Stri
Multiple m=new Multiple(;
m.Show(); m.Disp();
}
}
Command Prompt
C:\Users\WIN10\Desktop>java Multiple
Interface A & B
C:\Users\WIN10\Desktop>javac Multiple.java
Multiple.java:22: error: cannot find symbol
m.show(); m.Disp();
^
symbol: method show()
location: variable m of type Multiple
1 error
C:\Users\WIN10\Desktop>
Line 22, Column 12; Saved C:\Users\WIN10\Desktop\Multiple.java (UTF-8)
Tab Size: 4
Java
Type here to search
ENG
09:33
23-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Extending Interface */
interface Gill
{
void add();
}
interface Raj extends Gill
{
void sub();
}
class Ankit implements Raj
{
@Override
public void add()
{
int a=10,b=20,c;
c=a+b;
System.out.println("Addtion "+c);
}
}
7 lines, 98 characters selected
Tab Size: 4
Java
Type here to search
ENG
18:56
23-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Extending Interface */
interface Gill
{
void add();
}
interface Raj extends Gill
{
void sub();
}
class Ankit implements Raj
{
@Override
public void add()
{
int a=10,b=20,c;
c=a+b;
System.out.println("Addtion "+c);
}
@Override
public void sub()
{
int a=20,b=10,c;
c=a-b;
System.out.println("Subtraction "+c);
}
}
class
Line 27, Column 7
Tab Size: 4
Java
Type here to search
ENG
18:56
23-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
interface Gill
{
void add();
}
interface Raj extends Gill
{
void sub();
}
class Ankit implements Raj
{
@Override
public void add()
{
int a=10,b=20,c;
c=a+b;
System.out.println("Addtion "+c);
}
@Override
public void sub()
{
int a=20,b=10,c;
c=a-b;
System.out.println("Subtraction "+c);
}
}
1 characters selected
Tab Size: 4
Java
Type here to search
ENG
18:58
23-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Extending Interface */
interface Gill
{
void add();
}
interface Raj extends Gill
{
void sub();
}
class Ankit implements Gill
{
@Override
public void add()
{
int a=10,b=20,c;
c=a+b;
System.out.println("Addtion "+c);
}
@Override
public void sub()
{
int a=20,b=10,c;
c=a-b;
System.out.println("Subtraction "+c);
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Main.java
Main.java:19: error: method does not override
ent a method from a supertype
@Override
^
Main.java:31: error: cannot find symbol
r.add(); r.sub();
^
symbol: method sub()
location: variable r of type Gill
2 errors
C:\Users\WIN10\Desktop>
Line 30, Column 13
Tab Size: 4
Java
Type here to search
ENG
18:58
23-02-2021

V.V.I

interface JDK 1.8

Page No. :
Date : / /

* Before JDK 1.8, interface can only have abstract methods and all the abstract methods of interfaces must be overriden in implementing class as well as methods are public & abstract by default.

Example:-

```
interface A
{
```

Example:-

```
interface A
{
    void a1();  // public + abstract
    void a2();  // public + abstract
}
```

class B imp A	class C imp A	class D implements A
{	{	{
}		}

Example:-

```
interface A
{
    void a1();  // public + abstract
    void a2();  // public + abstract
    void a3();  // public + abstract
}
```

```
class B imp A
{
    public void a1()
    {
    }
    a2()
    {
    }
}
```

```
class C imp A
{
    public void a1()
    {
    }
    }
    a2()
    {
    }
}
```

```
class D implements A
{
    a2()
    {
    }
    a1()
    {
    }
}
```

example:- interface A.

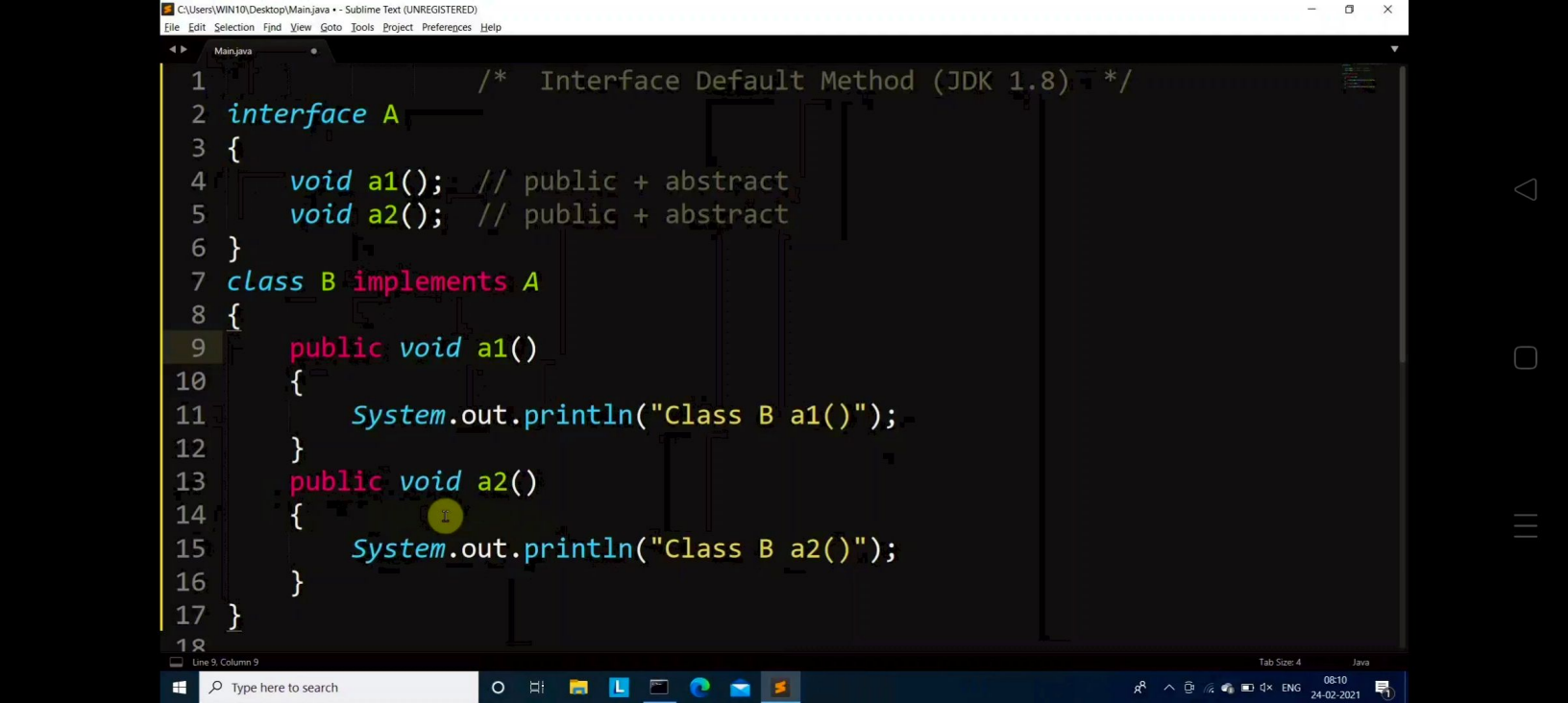
{

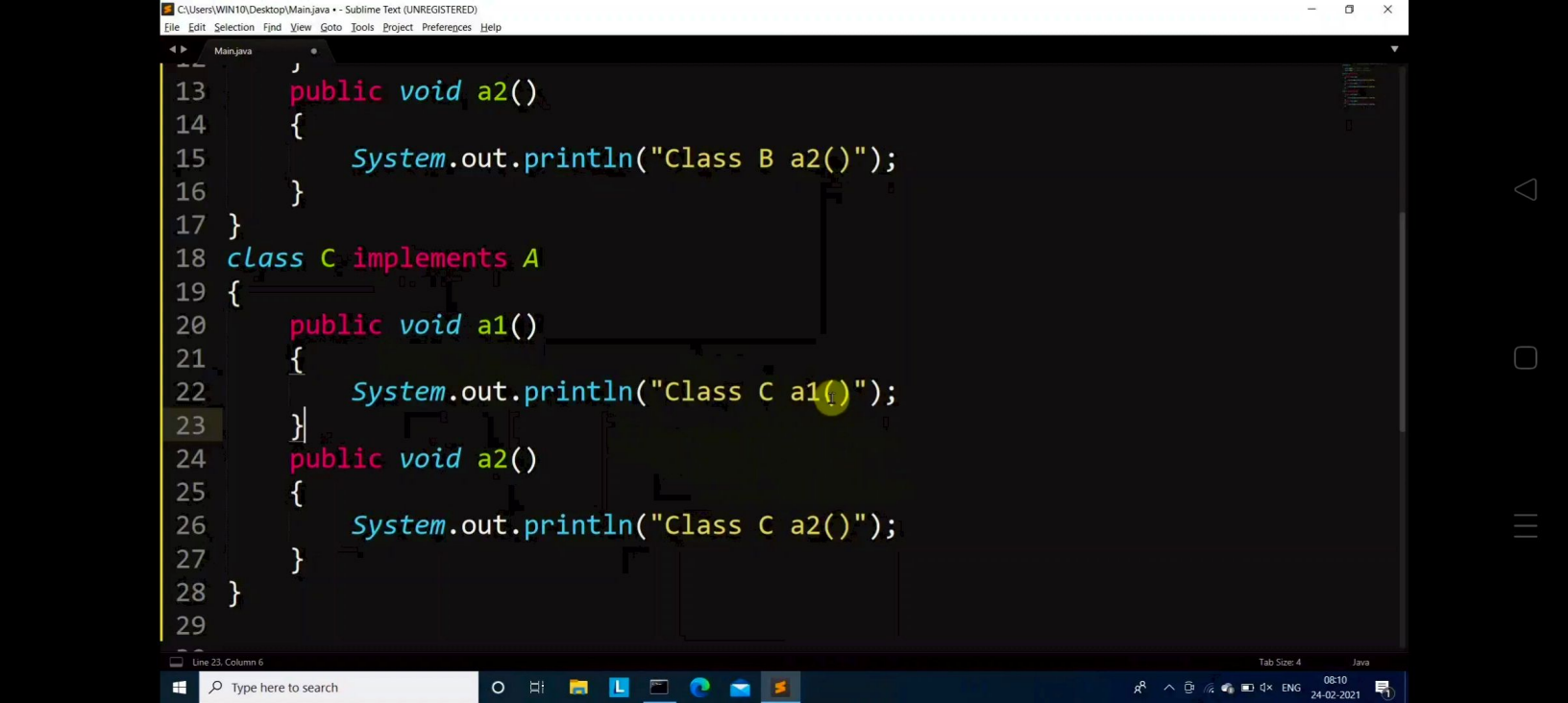
[public void fun(); } before 1.8 V.
  void disp();

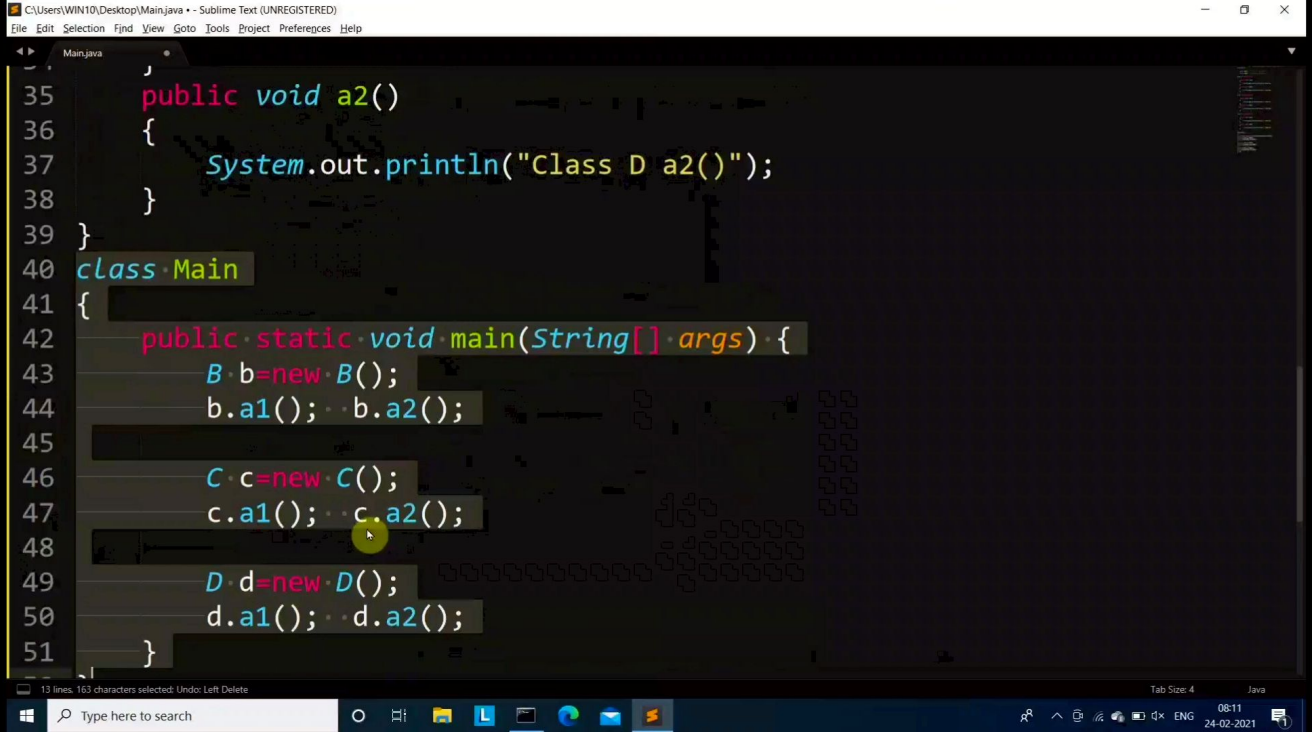
+

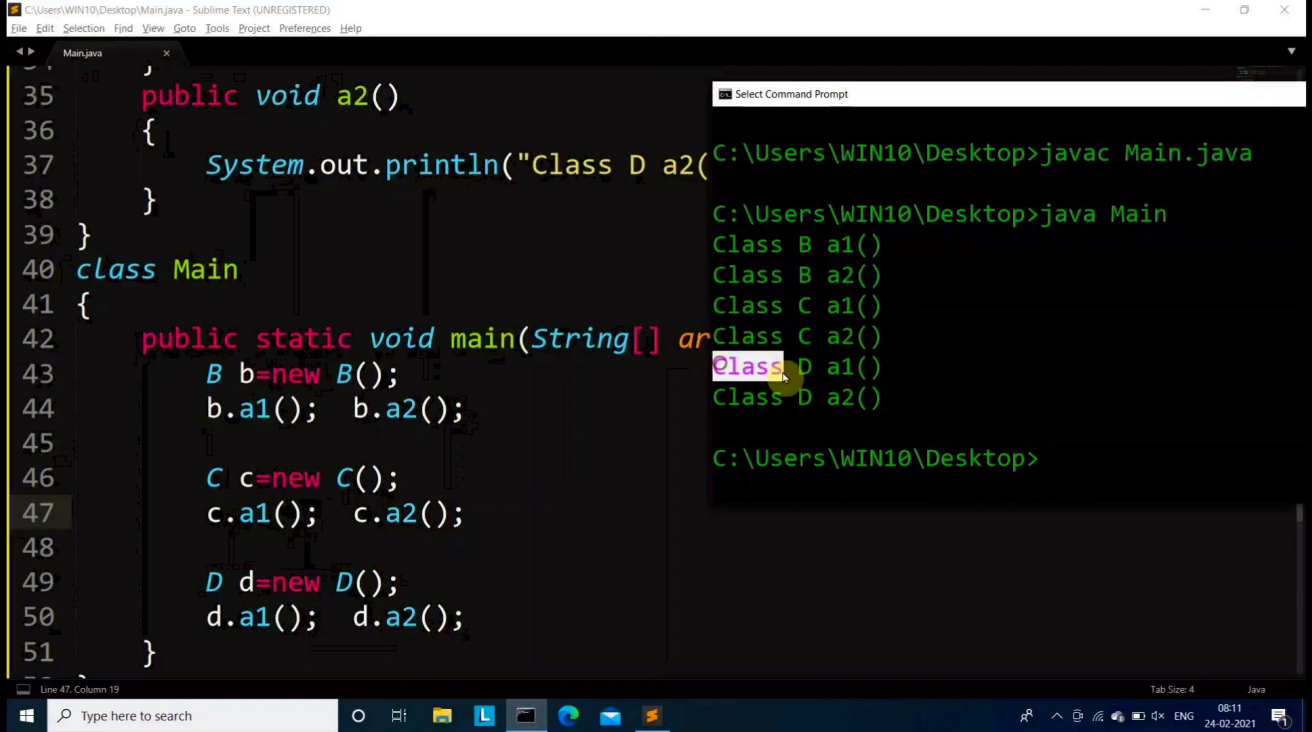
default void show() { }] from 1.8V
static void out() { }

}


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Interface Default Method (JDK 1.8) */
interface A
{
void a1(); // public + abstract
void a2(); // public + abstract
}
class B implements A
{
public void a1()
{
System.out.println("Class B a1()");
}
public void a2()
{
System.out.println("Class B a2()");
}
}
Line 9, Column 9
Tab Size: 4
Java
Type here to search
ENG
08:10
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
13 public void a2()
14 {
15 System.out.println("Class B a2()");
16 }
17 }
18 class C implements A
19 {
20 public void a1()
21 {
22 System.out.println("Class C a1()");
23 }
24 public void a2()
25 {
26 System.out.println("Class C a2()");
27 }
28 }
29
Line 23, Column 6
Tab Size: 4
Java
Type here to search
ENG
08:10
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
public void a2()
{
System.out.println("Class D a2()");
}
}
class Main
{
public static void main(String[] args) {
B b=new B();
b.a1(); b.a2();
C c=new C();
c.a1(); c.a2();
D d=new D();
d.a1(); d.a2();
}
13 lines, 163 characters selected; Undo: Left Delete
Tab Size: 4
Java
Type here to search
ENG
08:11
24-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
public void a2()
{
System.out.println("Class D a2(
}
}
class Main
{
public static void main(String[] ar
B b=new B();
b.a1(); b.a2();
C c=new C();
c.a1(); c.a2();
D d=new D();
d.a1(); d.a2();
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Main.java
C:\Users\WIN10\Desktop>java Main
Class B a1()
Class B a2()
Class C a1()
Class C a2()
Class D a1()
Class D a2()
C:\Users\WIN10\Desktop>
Line 47, Column 19
Tab Size: 4
Java
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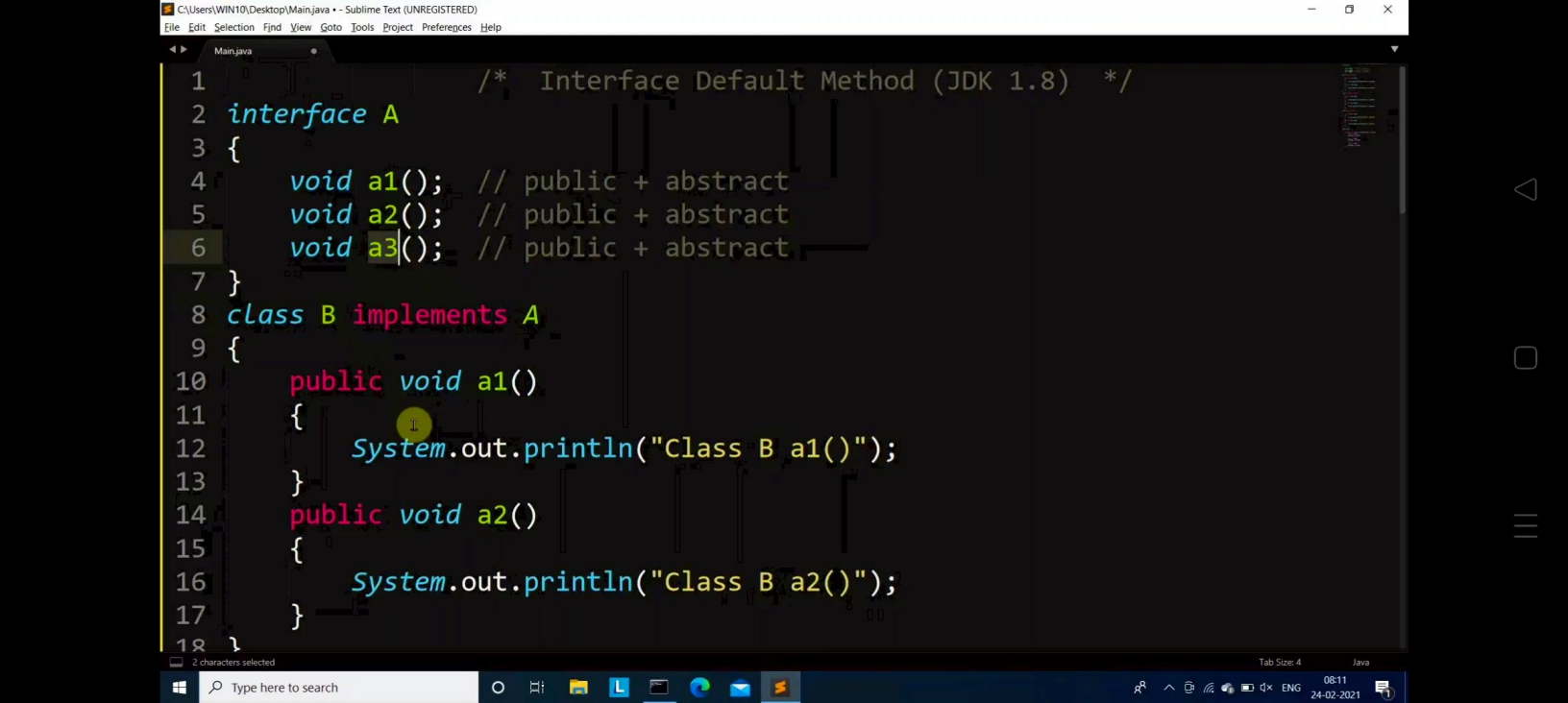
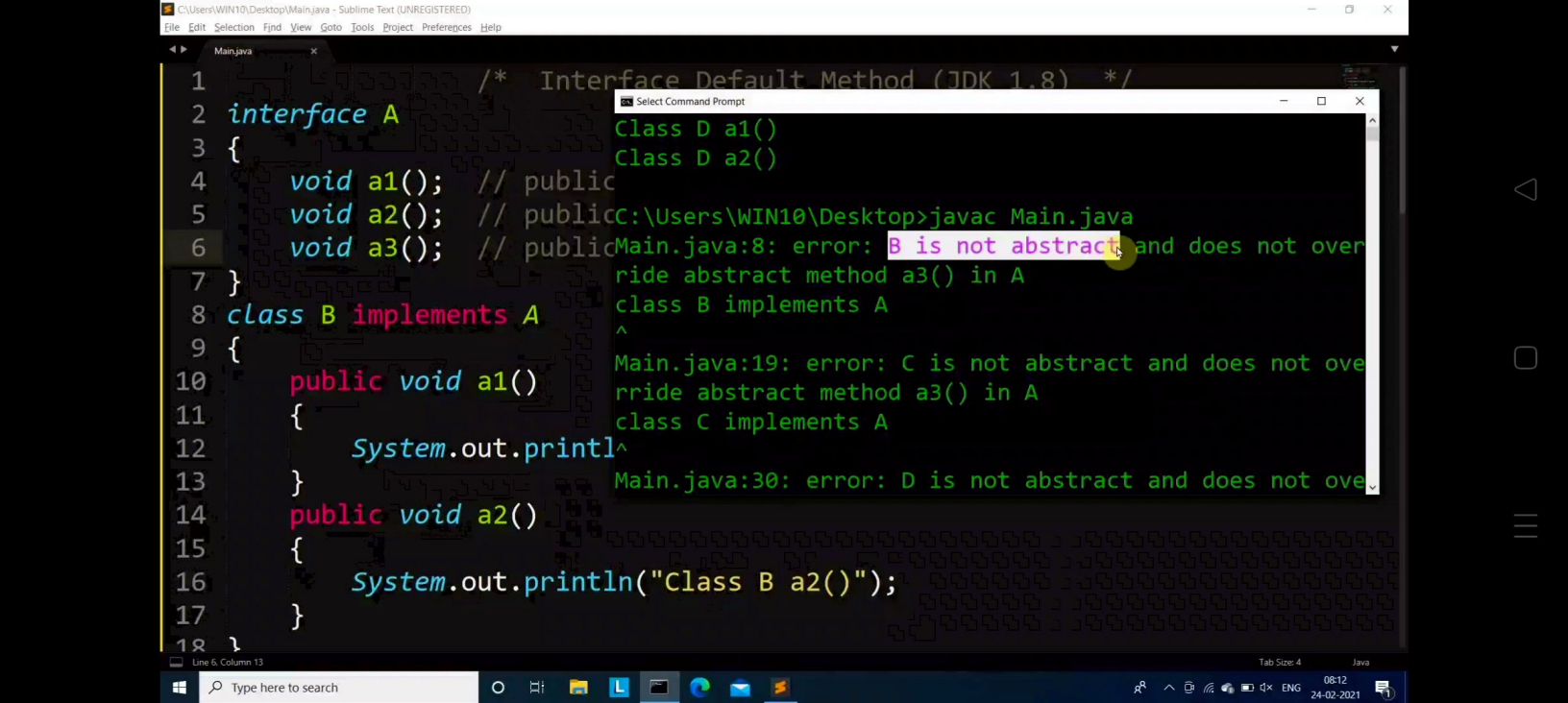
ENG
08:11
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Interface Default Method (JDK 1.8) */
interface A
{
void a1(); // public + abstract
void a2(); // public + abstract
void a3(); // public + abstract
}
class B implements A
{
public void a1()
{
System.out.println("Class B a1()");
}
public void a2()
{
System.out.println("Class B a2()");
}
2 characters selected
Tab Size: 4
Java
Type here to search
ENG
08:11
24-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Interface Default Method (JDK 1.8) */
interface A
{
void a1(); // public
void a2(); // public
void a3(); // public
}
class B implements A
{
public void a1()
{
System.out.println
}
public void a2()
{
System.out.println("Class B a2()");
}
}
Select Command Prompt
Class D a1()
Class D a2()
C:\Users\WIN10\Desktop>javac Main.java
Main.java:8: error: B is not abstract and does not over
ride abstract method a3() in A
class B implements A
^
Main.java:19: error: C is not abstract and does not ove
rride abstract method a3() in A
class C implements A
^
Main.java:30: error: D is not abstract and does not ove
Line 6, Column 13
Tab Size: 4
Java
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ENG
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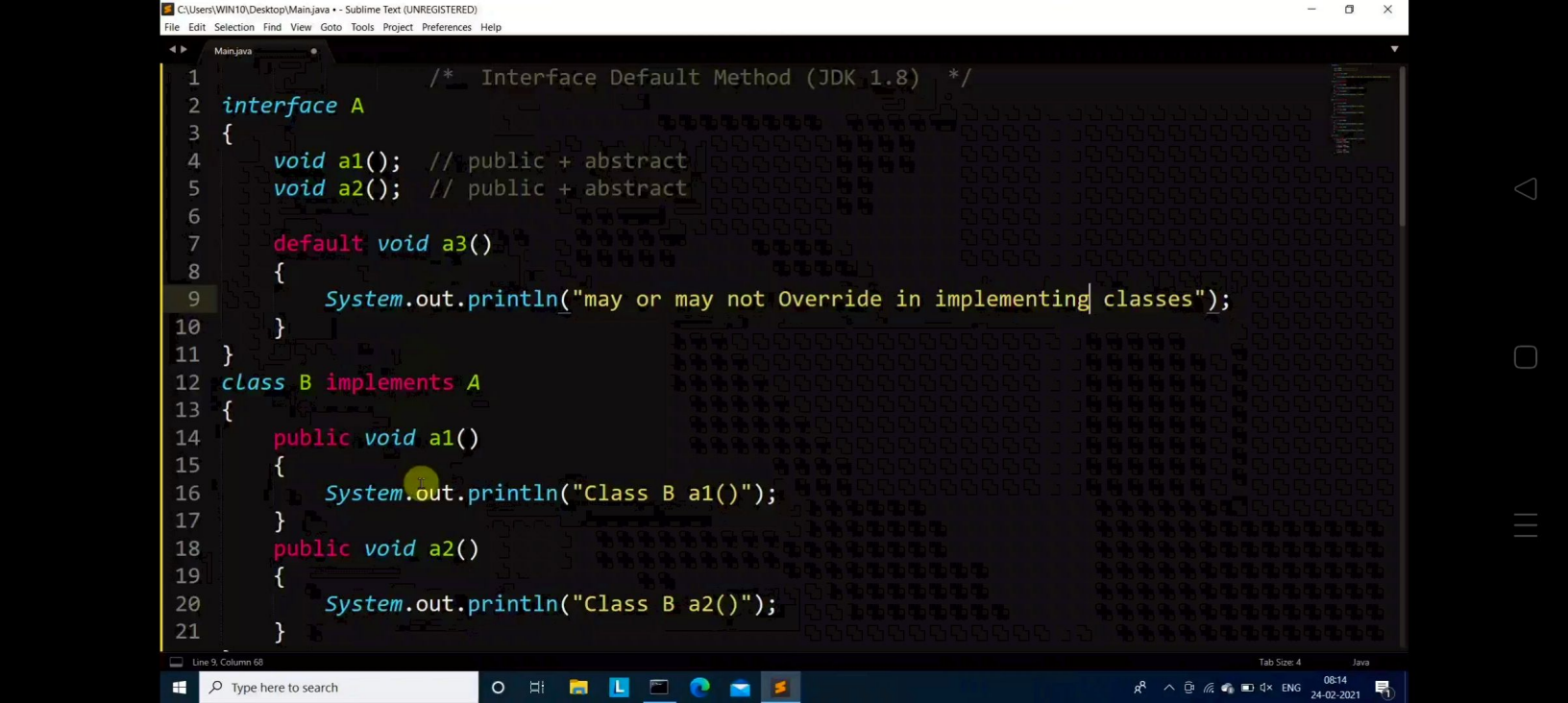
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
/* Interface Default Method (JDK 1.8) */
interface A
{
void a1(); // public + abstract
void a2(); // public + abstract
default void a3()
{
System.out.println("may or may not Override in implementing classes");
}
}
class B implements A
{
public void a1()
{
System.out.println("Class B a1()");
}
public void a2()
{
System.out.println("Class B a2()");
}
Line 9, Column 68
Tab Size: 4
Java
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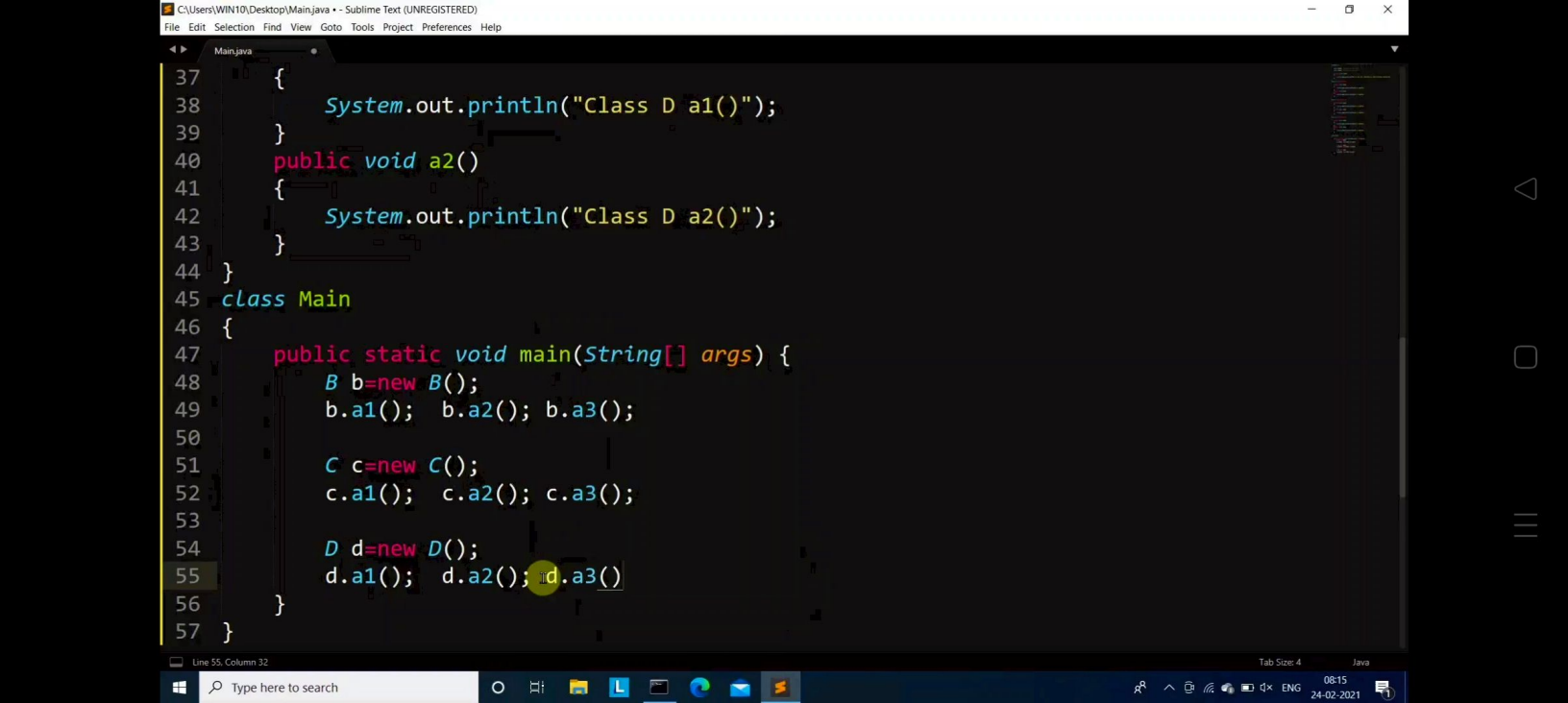
ENG
08:14
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
{
System.out.println("Class D a1()");
}
public void a2()
{
System.out.println("Class D a2()");
}
}
class Main
{
public static void main(String[] args) {
B b=new B();
b.a1(); b.a2(); b.a3();
C c=new C();
c.a1(); c.a2(); c.a3();
D d=new D();
d.a1(); d.a2(); d.a3()
}
}
Line 55, Column 32
Tab Size: 4
Java
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ENG
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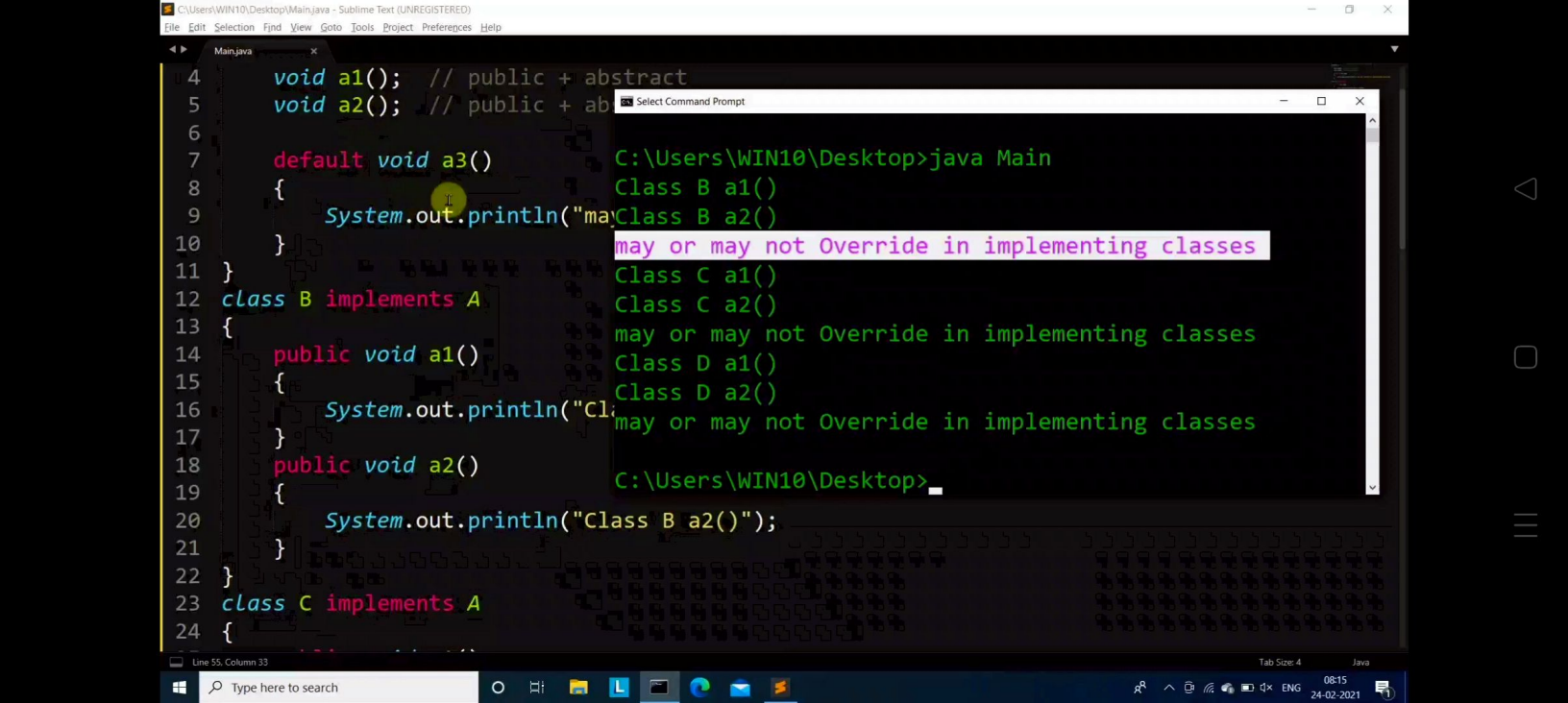
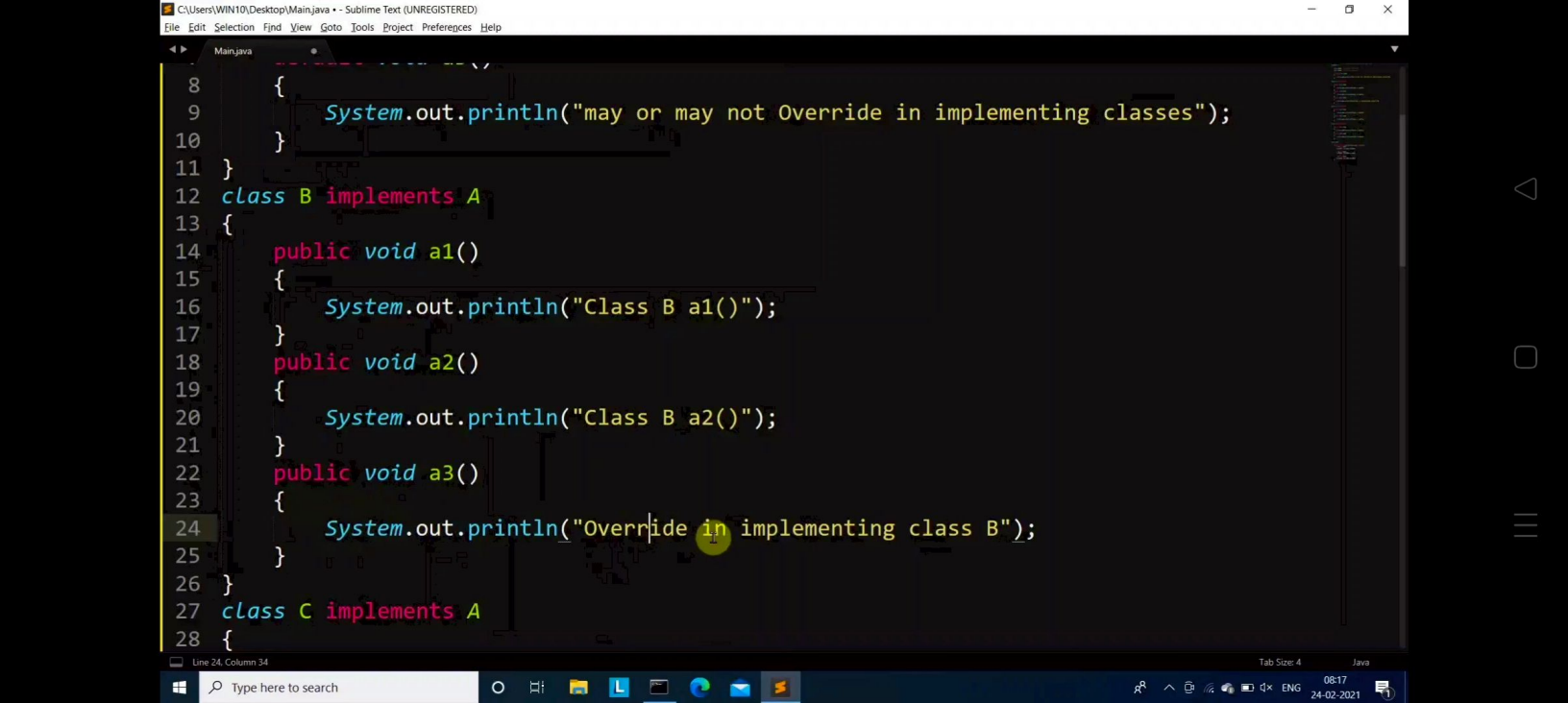
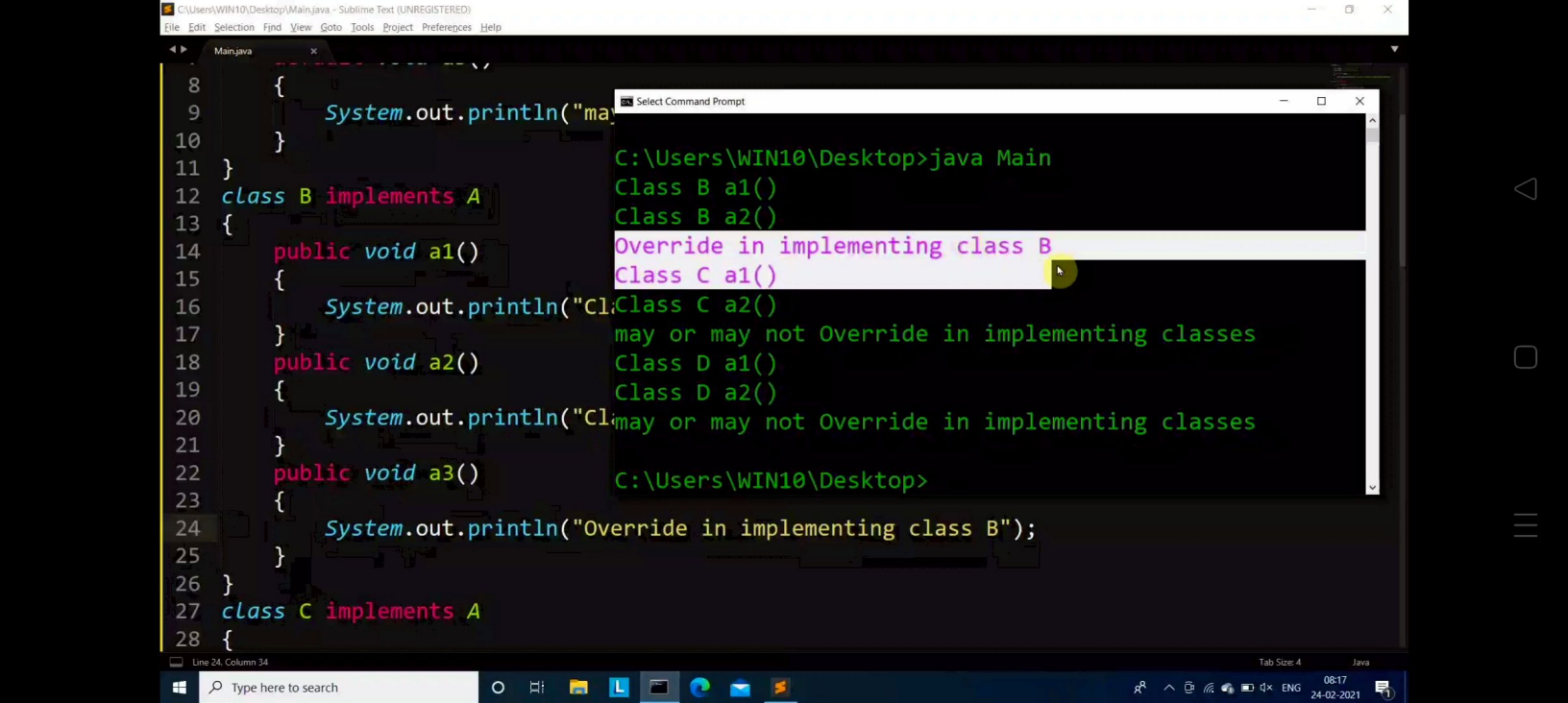
24-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
4 void a1(); // public + abstract
5 void a2(); // public + ab
6
7 default void a3()
8 {
9 System.out.println("ma
10 }
11 }
12 class B implements A
13 {
14 public void a1()
15 {
16 System.out.println("Cl
17 }
18 public void a2()
19 {
20 System.out.println("Class B a2()");
21 }
22 }
23 class C implements A
24 {
Select Command Prompt
C:\Users\WIN10\Desktop>java Main
Class B a1()
Class B a2()
may or may not Override in implementing classes
Class C a1()
Class C a2()
may or may not Override in implementing classes
Class D a1()
Class D a2()
may or may not Override in implementing classes
C:\Users\WIN10\Desktop>
Line 55, Column 33
Tab Size: 4
Java
Type here to search
ENG
08:15
24-02-2021


C:\Users\WIN10\Desktop\Main.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
{
System.out.println("may or may not Override in implementing classes");
}
}
class B implements A
{
public void a1()
{
System.out.println("Class B a1()");
}
public void a2()
{
System.out.println("Class B a2()");
}
public void a3()
{
System.out.println("Override in implementing class B");
}
}
class C implements A
{
Line 24, Column 34
Tab Size: 4
Java
Type here to search
ENG
08:17
24-02-2021


C:\Users\WIN10\Desktop\Main.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Main.java
8 {
9 System.out.println("ma
10 }
11 }
12 class B implements A
13 {
14 public void a1()
15 {
16 System.out.println("Cl
17 }
18 public void a2()
19 {
20 System.out.println("Cl
21 }
22 public void a3()
23 {
24 System.out.println("Override in implementing class B");
25 }
26 }
27 class C implements A
28 {
Select Command Prompt
C:\Users\WIN10\Desktop>java Main
Class B a1()
Class B a2()
Override in implementing class B
Class C a1()
Class C a2()
may or may not Override in implementing classes
Class D a1()
Class D a2()
may or may not Override in implementing classes
C:\Users\WIN10\Desktop>
Line 24, Column 34
Tab Size: 4
Java
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ENG
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24-02-2021

V.V.I

interface JDK 1.8

Page No. :
Date : / /

*. From JDK 1.8 onwards interface can have default & static methods.

Example:-

```
interface A
{
    ...();   } before 1.8 V
    ...(){   }
    ...();   } from 1.8V
}
```

default & static methods.

Example:-

```
interface A
{
    100% void fun();
         void disp();
    }  before 1.8 V
    +
    default void show(){ }
    static void out(){ }   ] from 1.8V
}
```

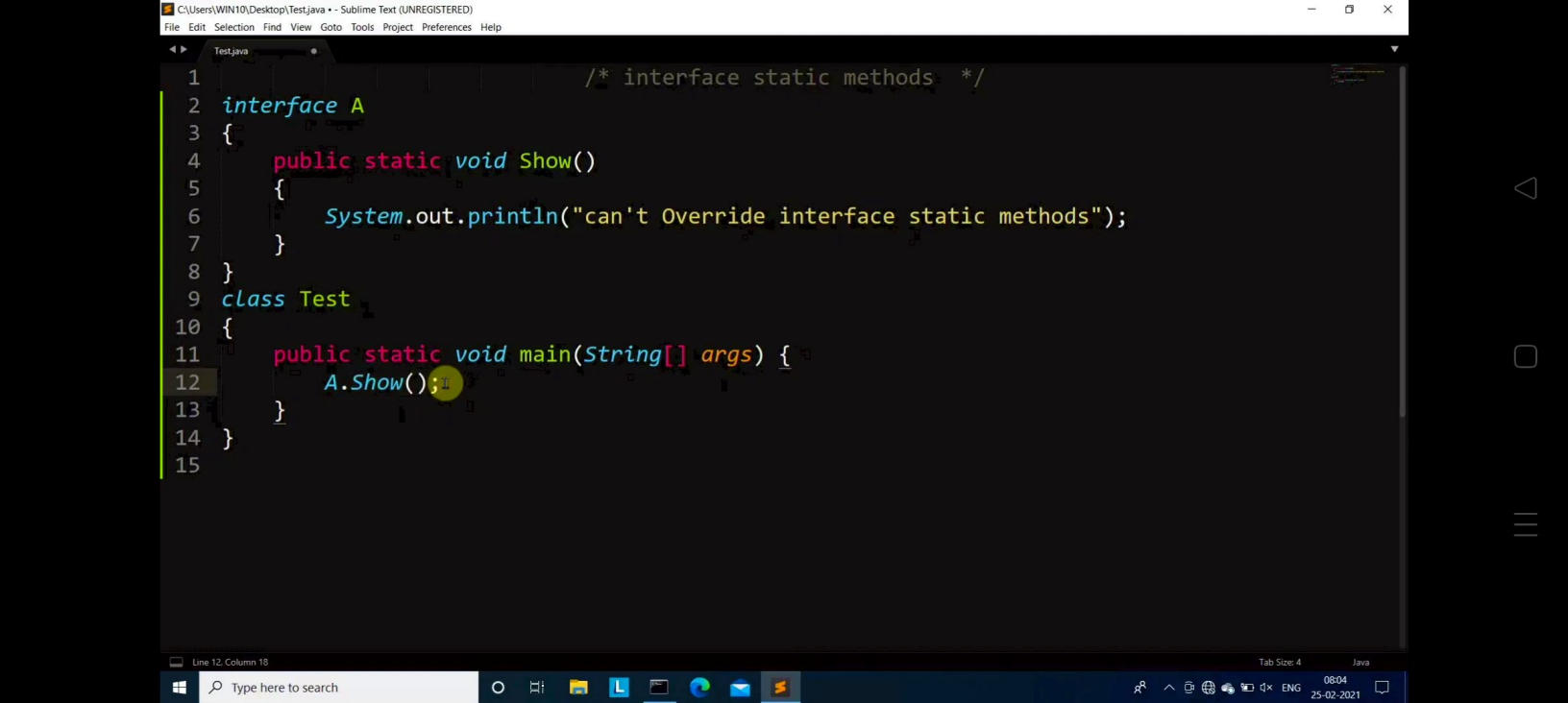
purpose

~~public void~~

public static void show()

{

}


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
}
}
Line 12, Column 18
Tab Size: 4
Java
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ENG
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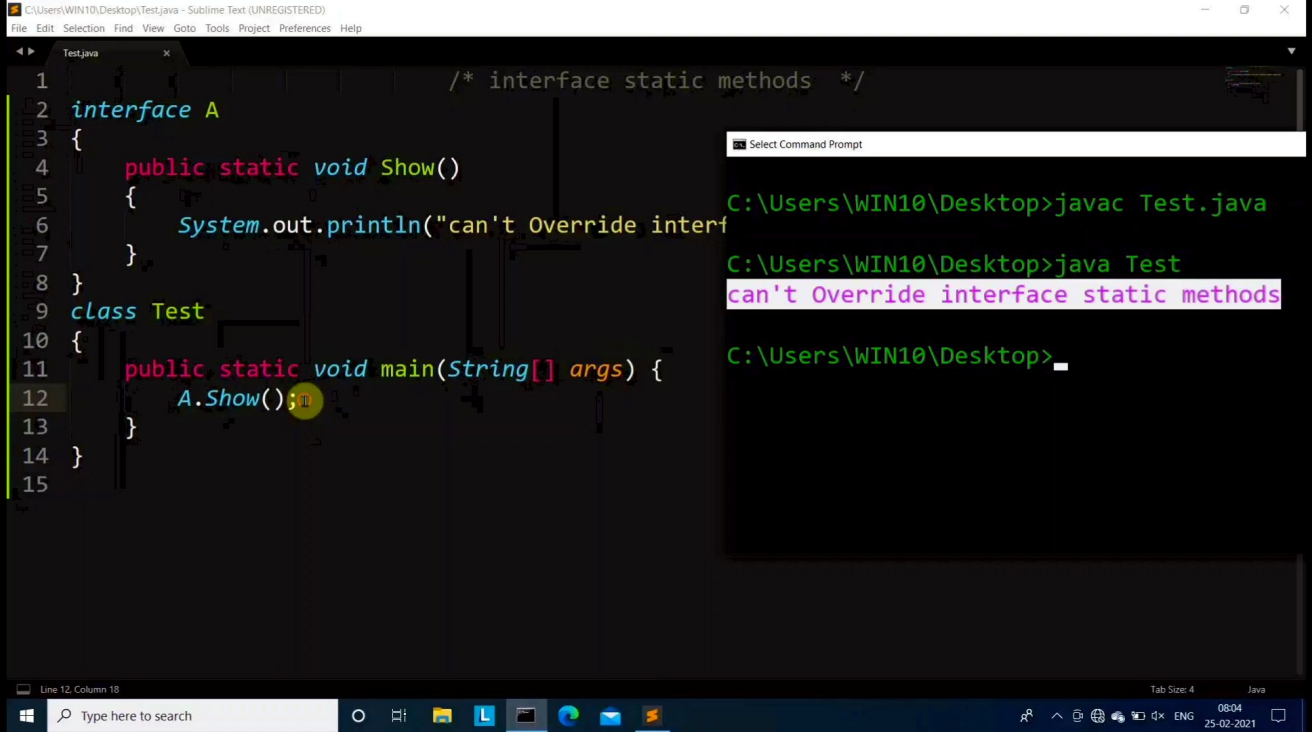
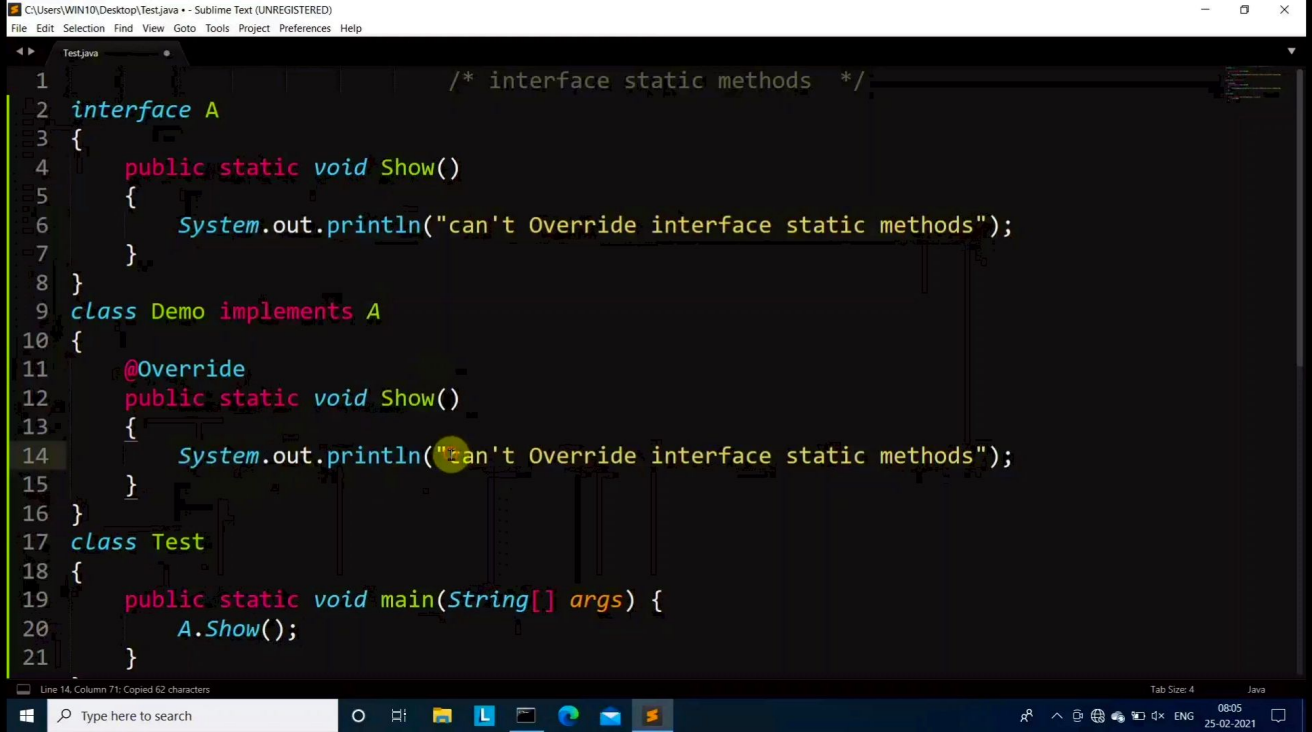
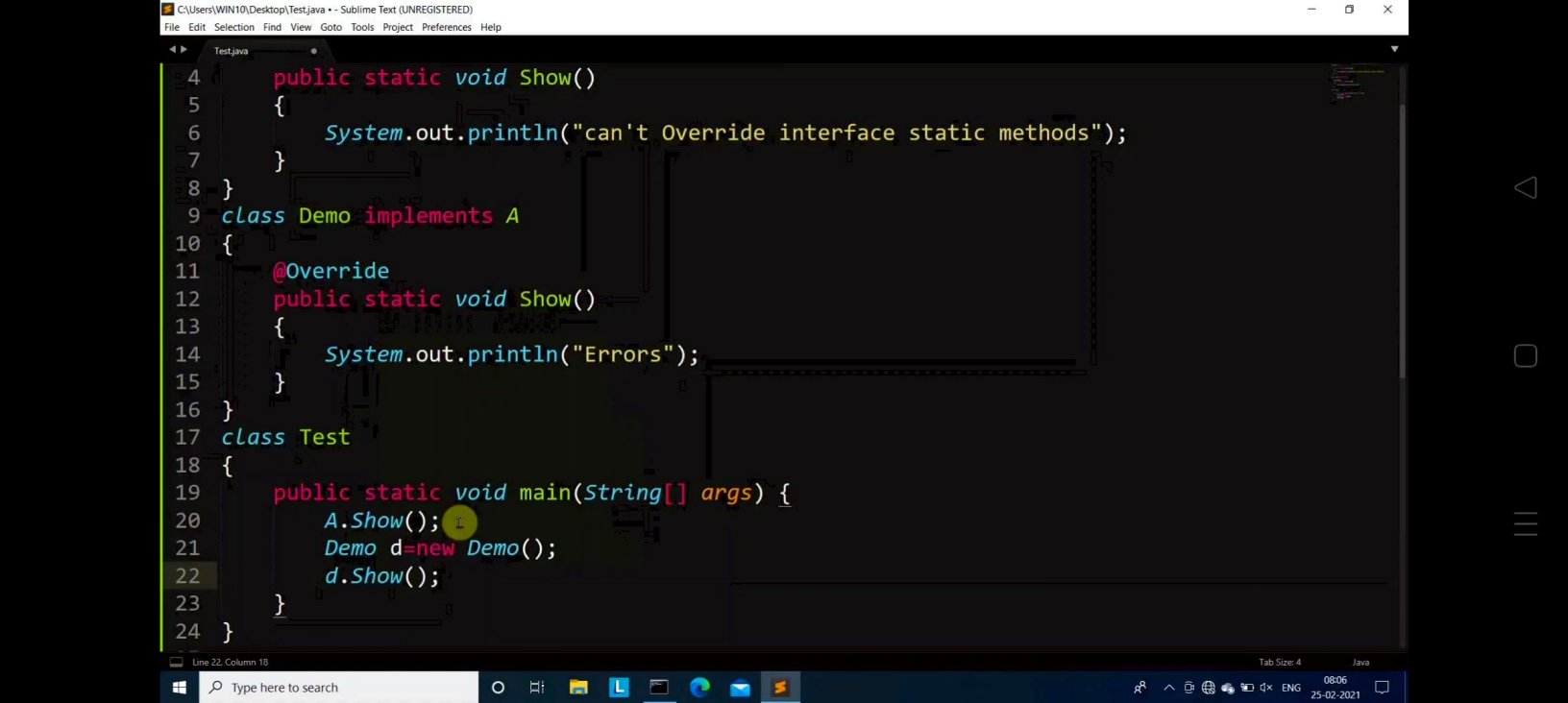
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interf
}
}
class Test
{
public static void main(String[] args) {
A.Show();
}
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Test.java
C:\Users\WIN10\Desktop>java Test
can't Override interface static methods
C:\Users\WIN10\Desktop>
Line 12, Column 18
Tab Size: 4
Java
Type here to search
ENG
08:04
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Demo implements A
{
@Override
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
}
Line 14, Column 71; Copied 62 characters
Tab Size: 4
Java
Type here to search
ENG
08:05
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Demo implements A
{
@Override
public static void Show()
{
System.out.println("Errors");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
Demo d=new Demo();
d.Show();
}
}
Line 22, Column 18
Tab Size: 4
Java
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ENG
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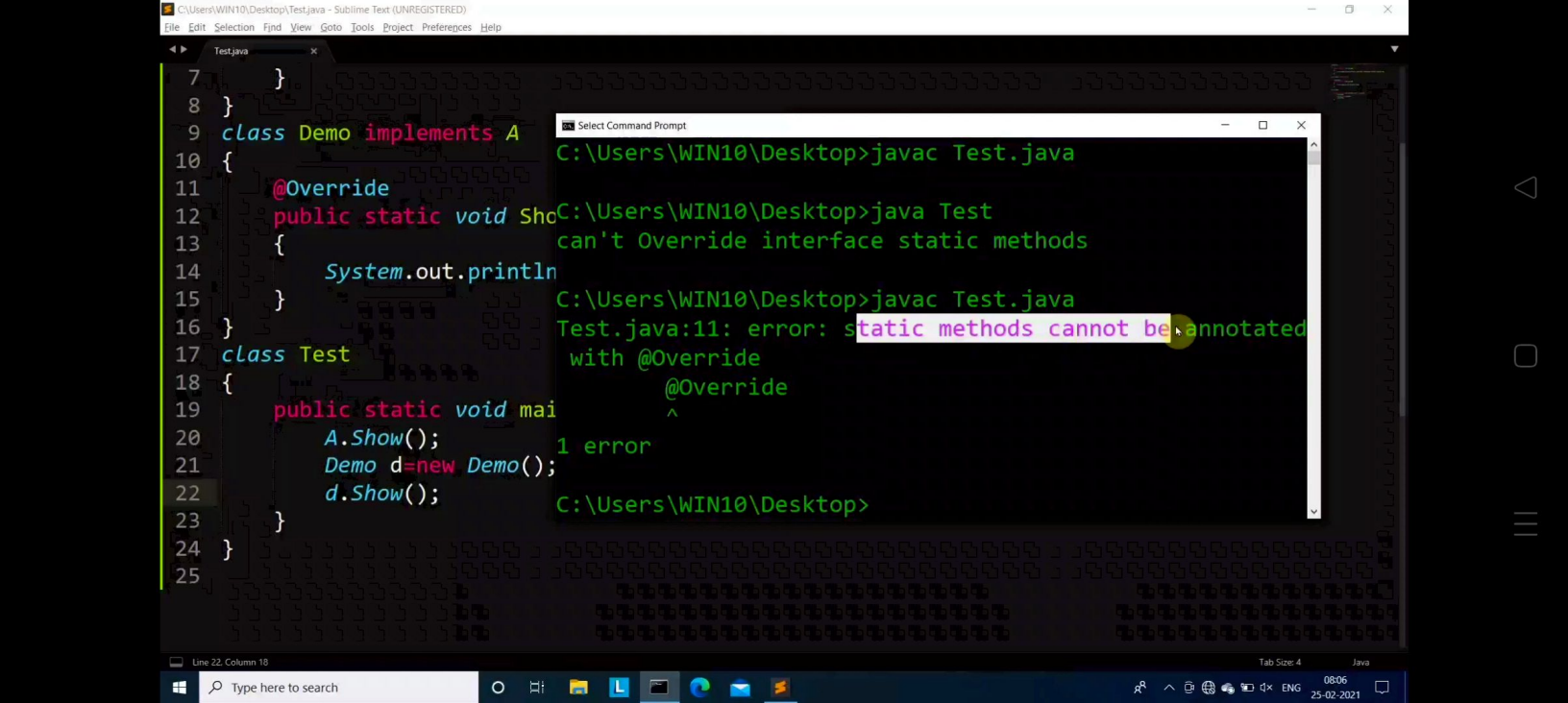
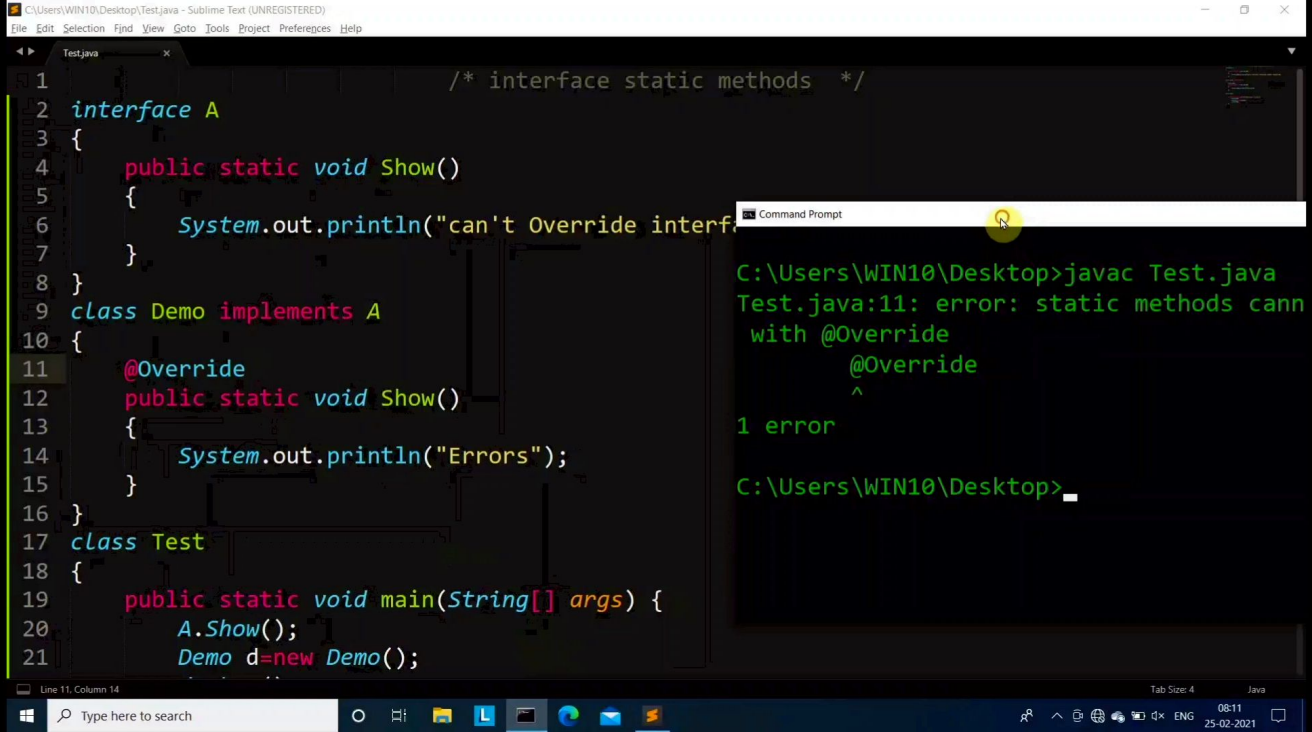
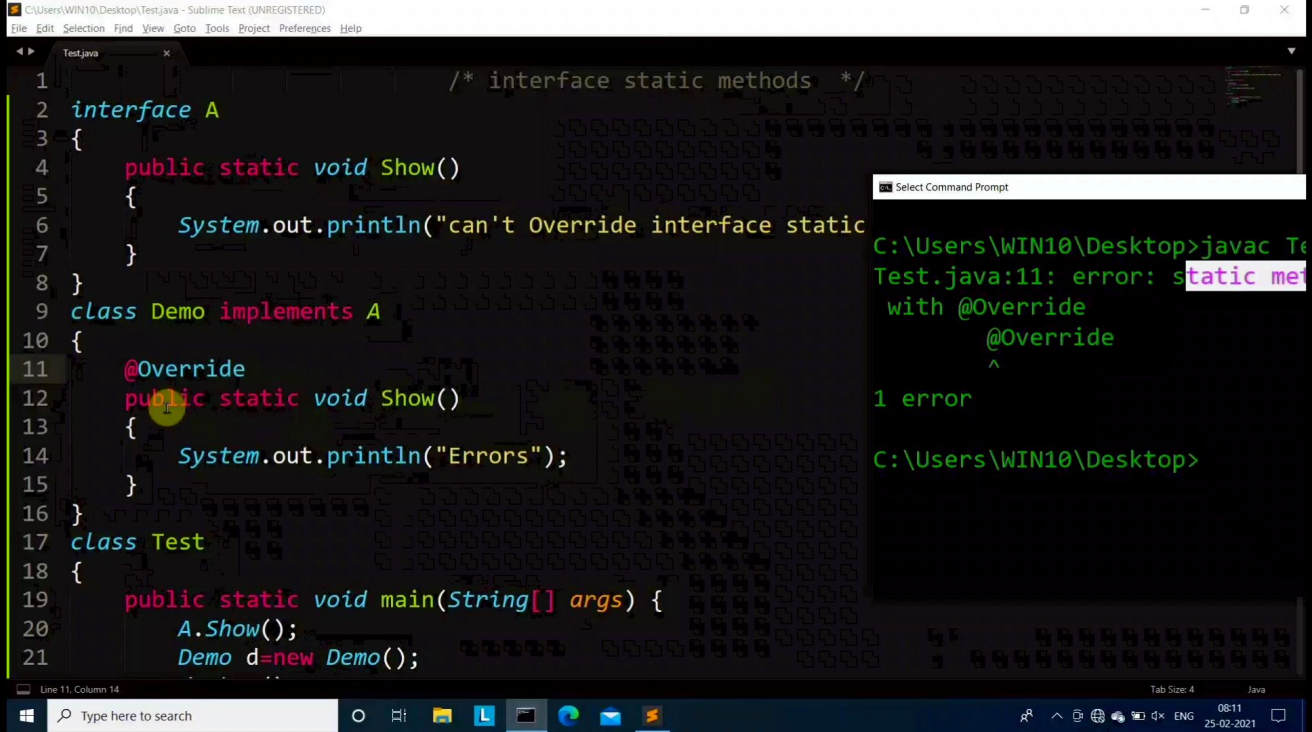
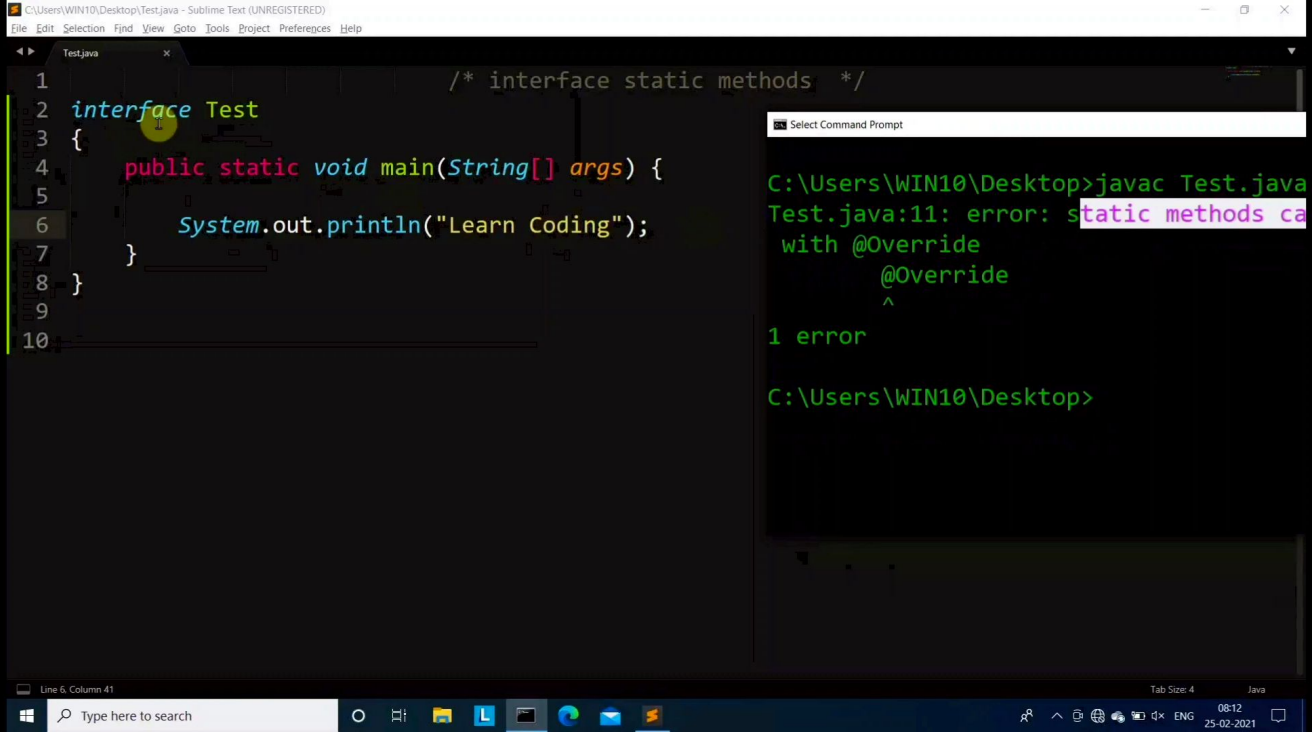
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
}
}
class Demo implements A
{
@Override
public static void Sho
{
System.out.println
}
}
class Test
{
public static void mai
A.Show();
Demo d=new Demo();
d.Show();
}
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Test.java
C:\Users\WIN10\Desktop>java Test
can't Override interface static methods
C:\Users\WIN10\Desktop>javac Test.java
Test.java:11: error: static methods cannot be annotated
with @Override
@Override
^
1 error
C:\Users\WIN10\Desktop>
Line 22, Column 18
Tab Size: 4
Java
Type here to search
ENG
08:06
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interf
}
}
class Demo implements A
{
@Override
public static void Show()
{
System.out.println("Errors");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
Demo d=new Demo();
Command Prompt
C:\Users\WIN10\Desktop>javac Test.java
Test.java:11: error: static methods cann
with @Override
@Override
^
1 error
C:\Users\WIN10\Desktop>
Line 11, Column 14
Tab Size: 4
Java
Type here to search
ENG
08:11
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interface static
}
}
class Demo implements A
{
@Override
public static void Show()
{
System.out.println("Errors");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
Demo d=new Demo();
Select Command Prompt
C:\Users\WIN10\Desktop>javac Te
Test.java:11: error: static me
with @Override
@Override
^
1 error
C:\Users\WIN10\Desktop>
Line 11, Column 14
Tab Size: 4
Java
Type here to search
ENG
08:11
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface Test
{
public static void main(String[] args) {
System.out.println("Learn Coding");
}
}
Select Command Prompt
C:\Users\WIN10\Desktop>javac Test.java
Test.java:11: error: static methods ca
with @Override
@Override
^
1 error
C:\Users\WIN10\Desktop>
Line 6, Column 41
Tab Size: 4
Java
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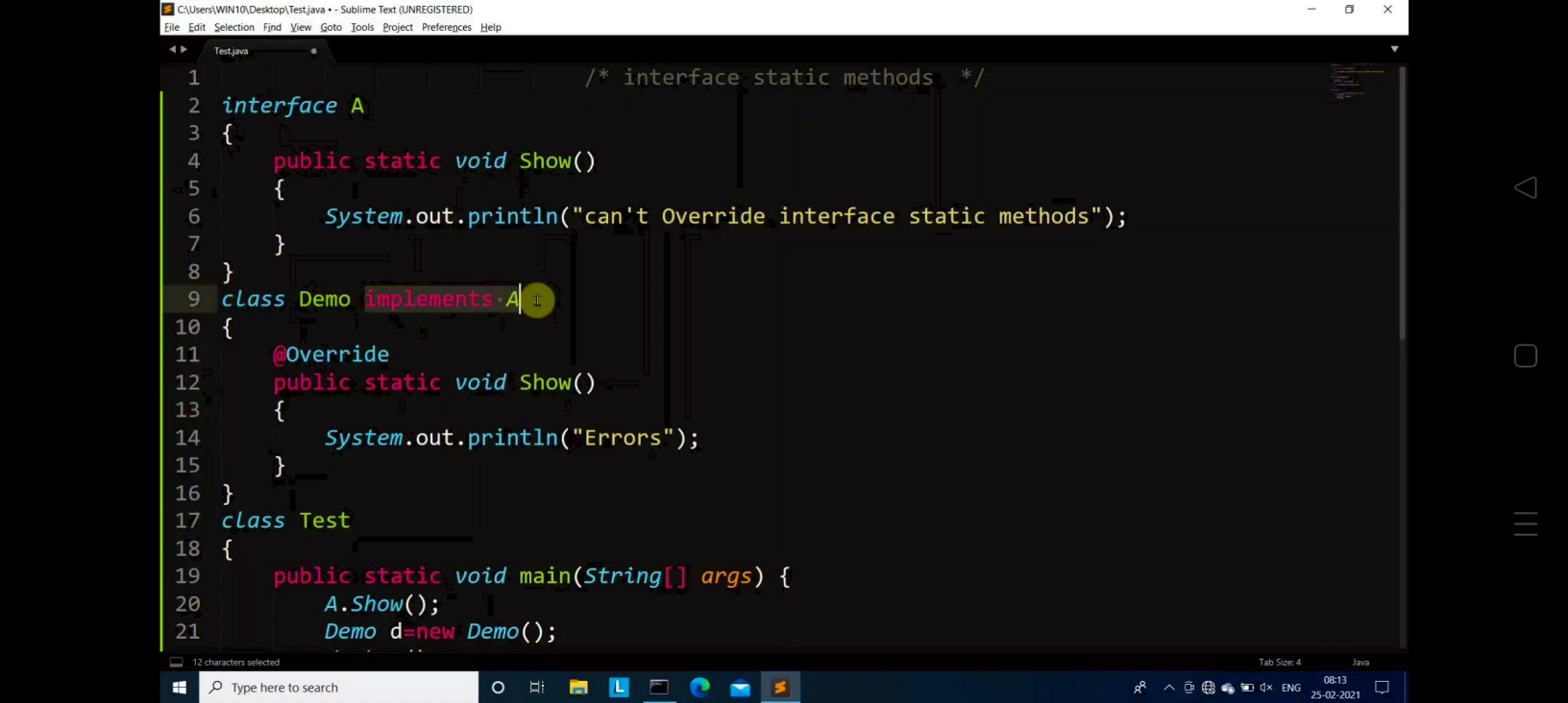
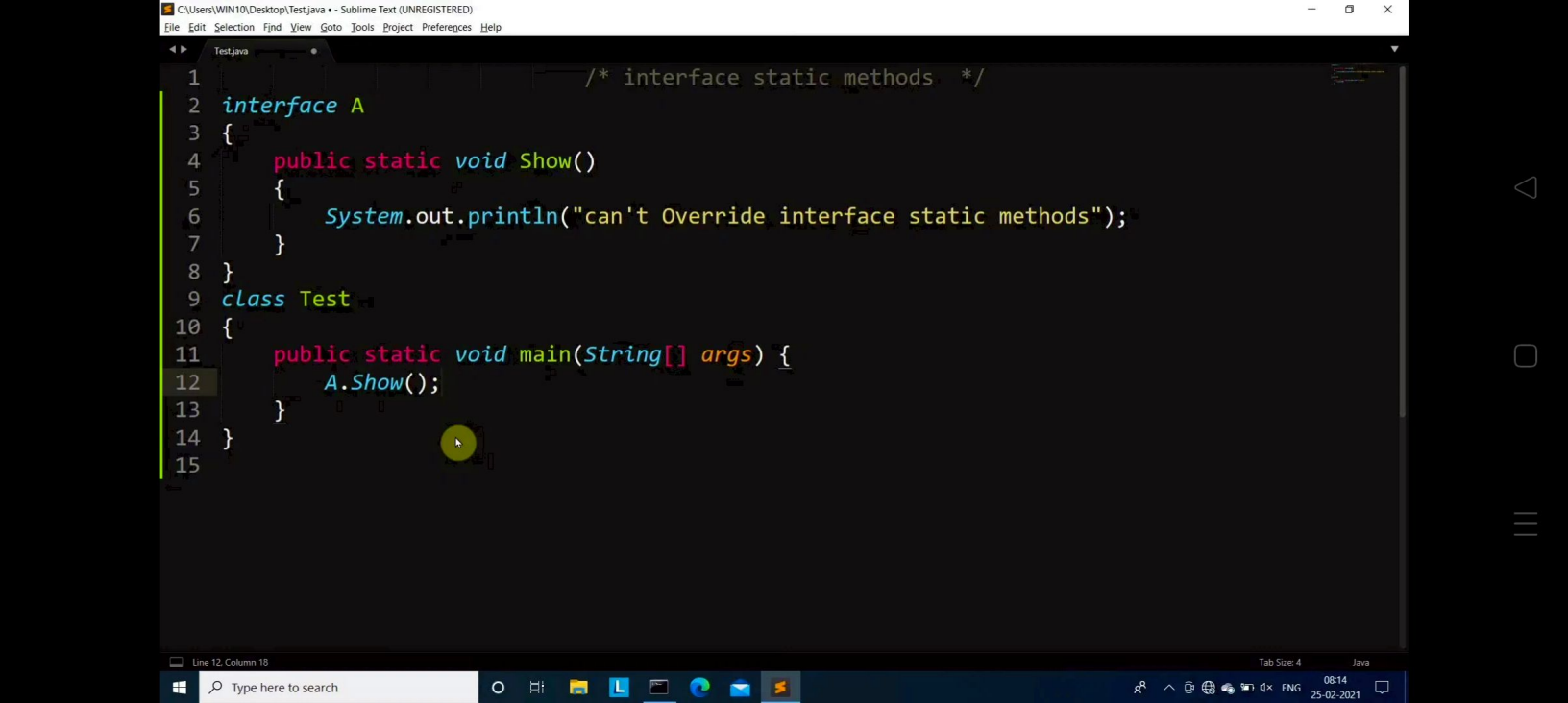
ENG
08:12
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Demo implements A
{
@Override
public static void Show()
{
System.out.println("Errors");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
Demo d=new Demo();
12 characters selected
Tab Size: 4
Java
Type here to search
ENG
08:13
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* interface static methods */
interface A
{
public static void Show()
{
System.out.println("can't Override interface static methods");
}
}
class Test
{
public static void main(String[] args) {
A.Show();
}
}
Line 12, Column 18
Tab Size: 4
Java
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ENG
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V.V.I

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Date : / /

interface JDK 1.9

- From JDK 1.9 onwards interface can have private methods also, and we can declare this private method as a static or non-static.

Ex-> 1) interface A (Before 1.8 v)

non-static.

Ex->1) interface A (Before 1.8 v)

```
{
    void m1(); // public + abstract
    int a=10;
}
```

2) interface ... (... 1.8 v)

```
{
    voi...
    in...
    ...
    de...
```

Ex->1) interface A (Before 1.8 V)
{ 1995-2014
void m1(); // public + abstract
int a=10; // public + static + final
}

ii) interface A (From 1.8 V)
{
void m1();
int a=10;
+
default void m2() {
Static void m3 {
}

11) interface A (From 1.8 V)

{

void m1();

int a=10;

+

default void m2() { }

static void m3 { }

}

iii) interface A (from 1.9 V)

{

void m1(); 1.7 V

int a=10;

+

default void m2() { } 1.8 V

Static void m3() { }

+

private void m4() { } 1

}

iii) interface A (from 1.9 V)

{

void m1(); 1.7 V

int a=10;

+

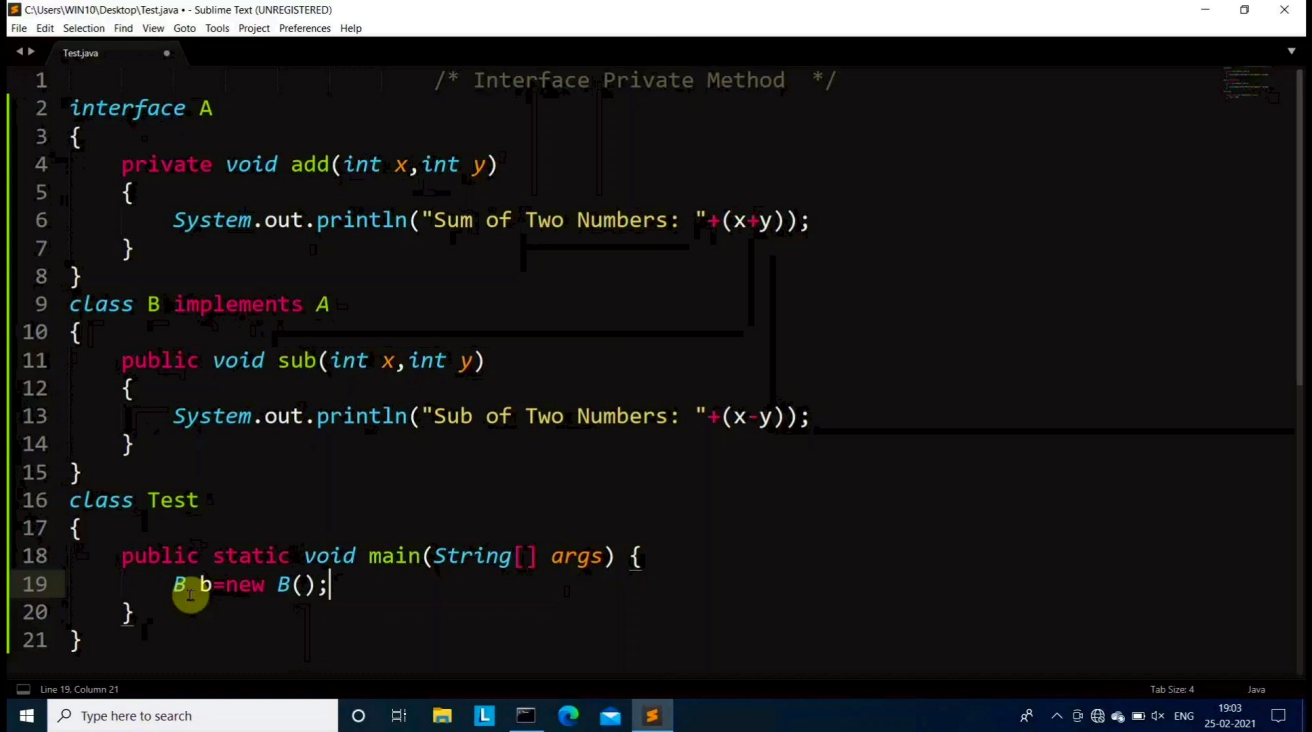
default void m2() { } 1.6 V

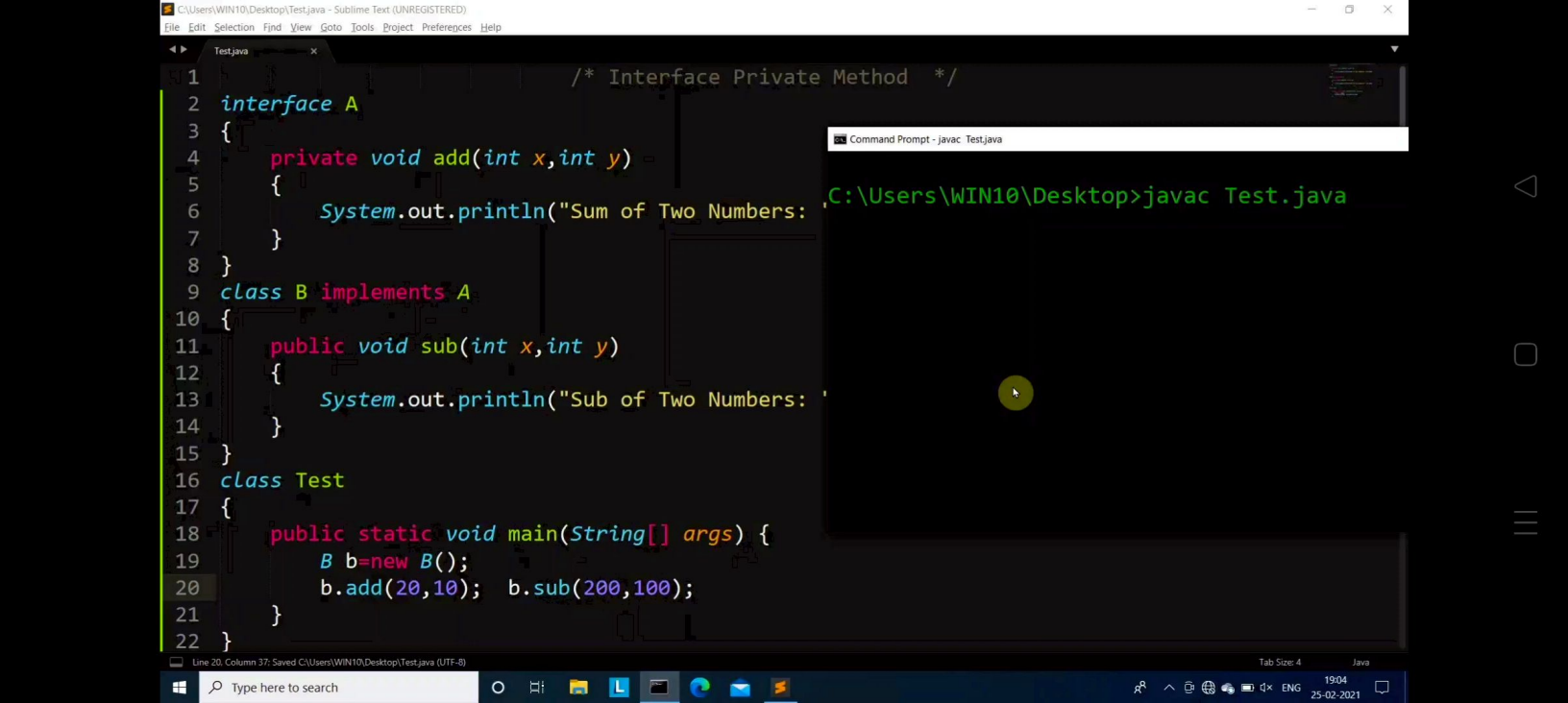
Static void m3() { }

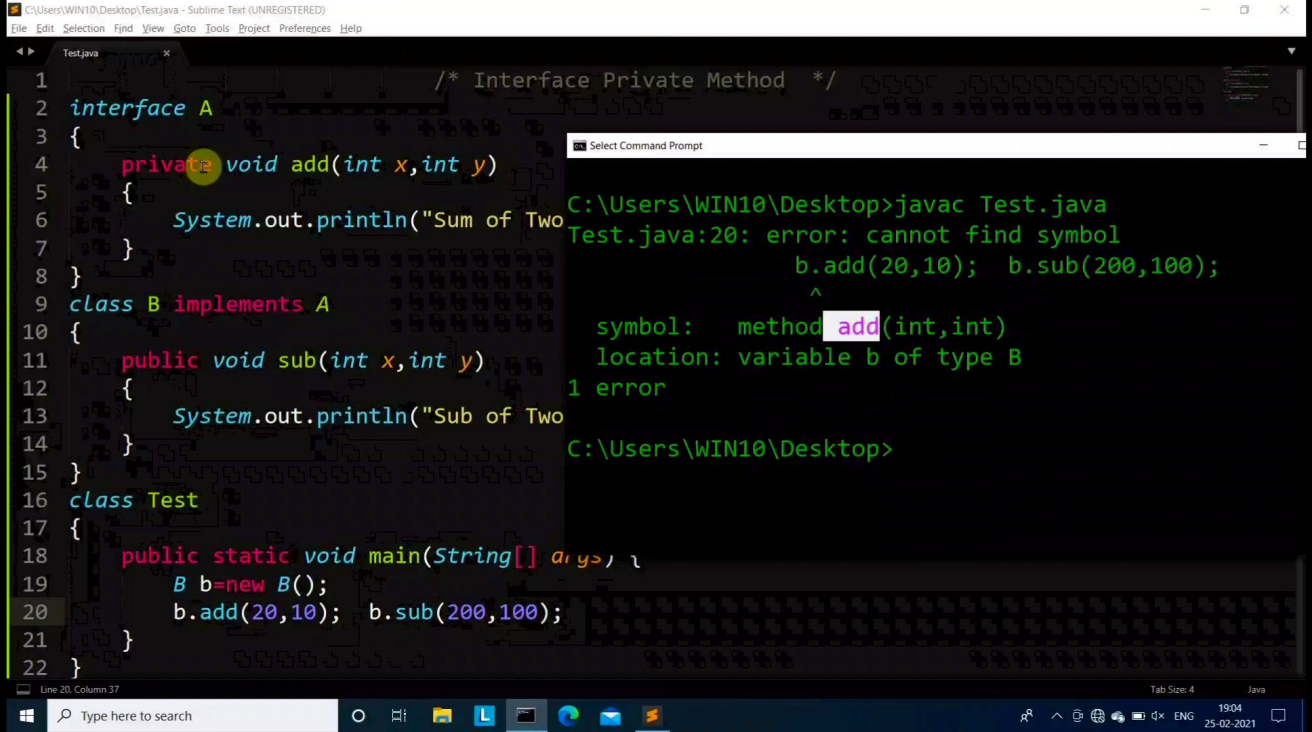
+

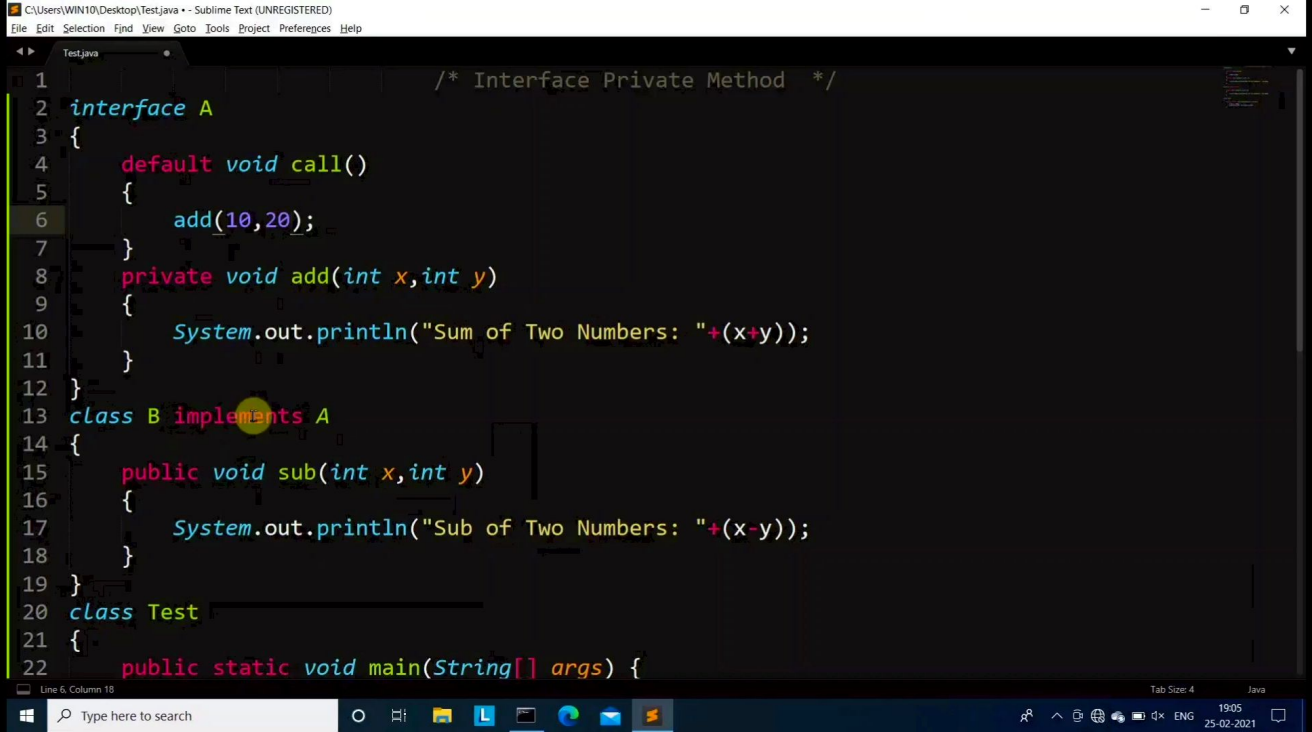
private void m4() { } 1.9 V

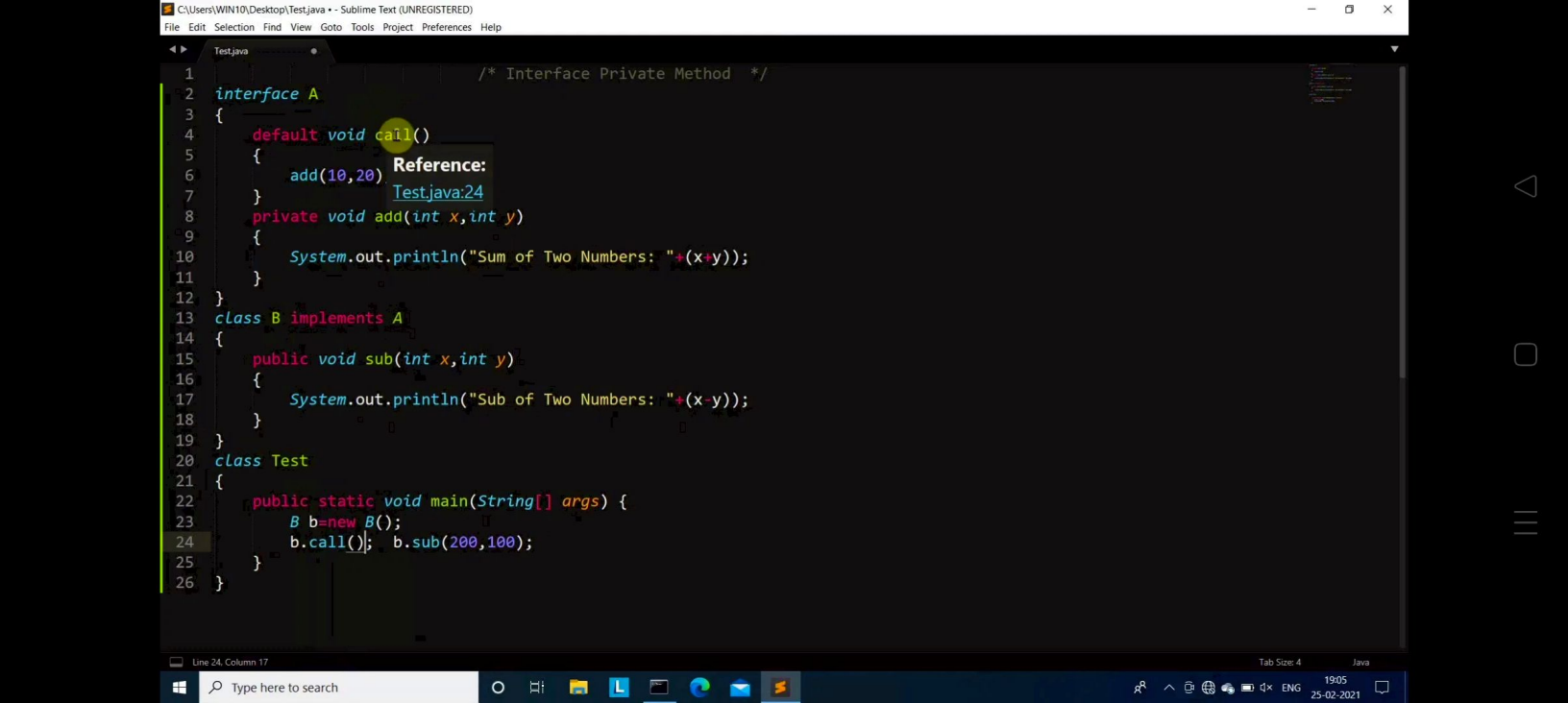
}

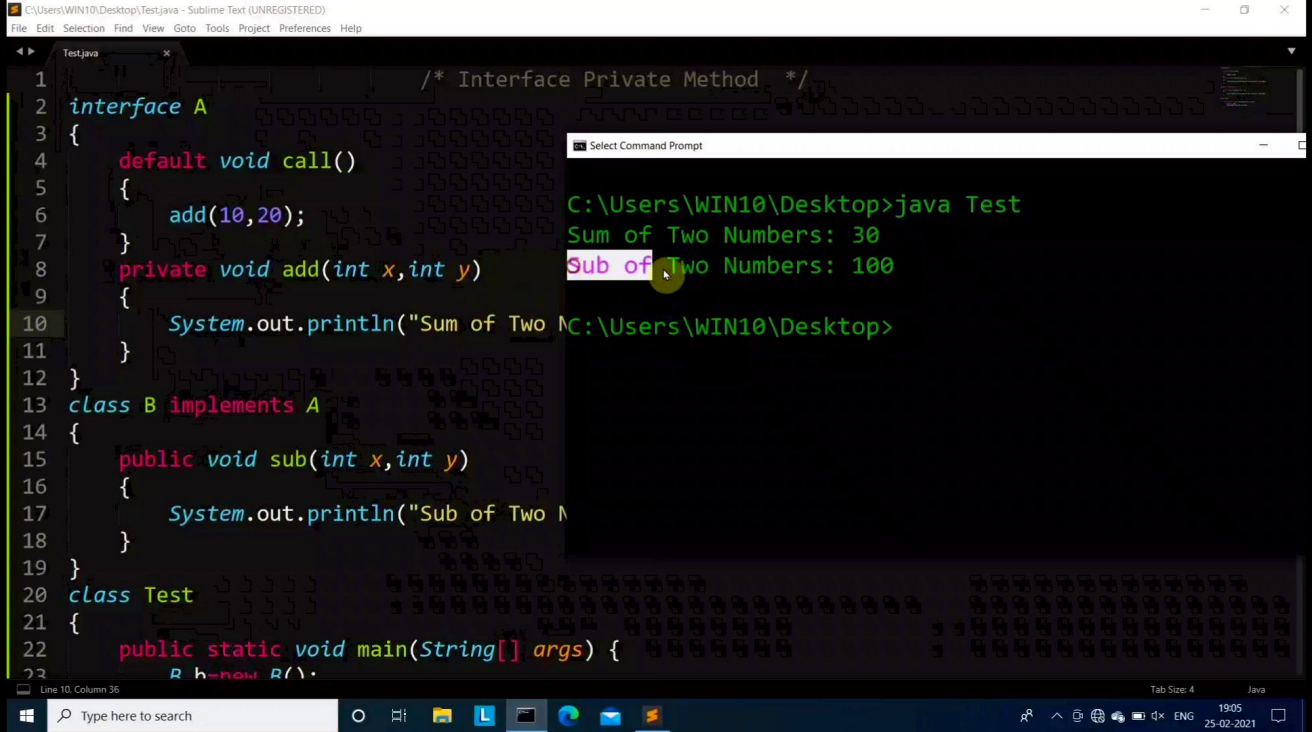

C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
private void add(int x,int y)
{
System.out.println("Sum of Two Numbers: "+(x+y));
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers: "+(x-y));
}
}
class Test
{
public static void main(String[] args) {
B b=new B();
}
}
Line 19, Column 21
Tab Size: 4
Java
Type here to search
ENG
19:03
25-02-2021

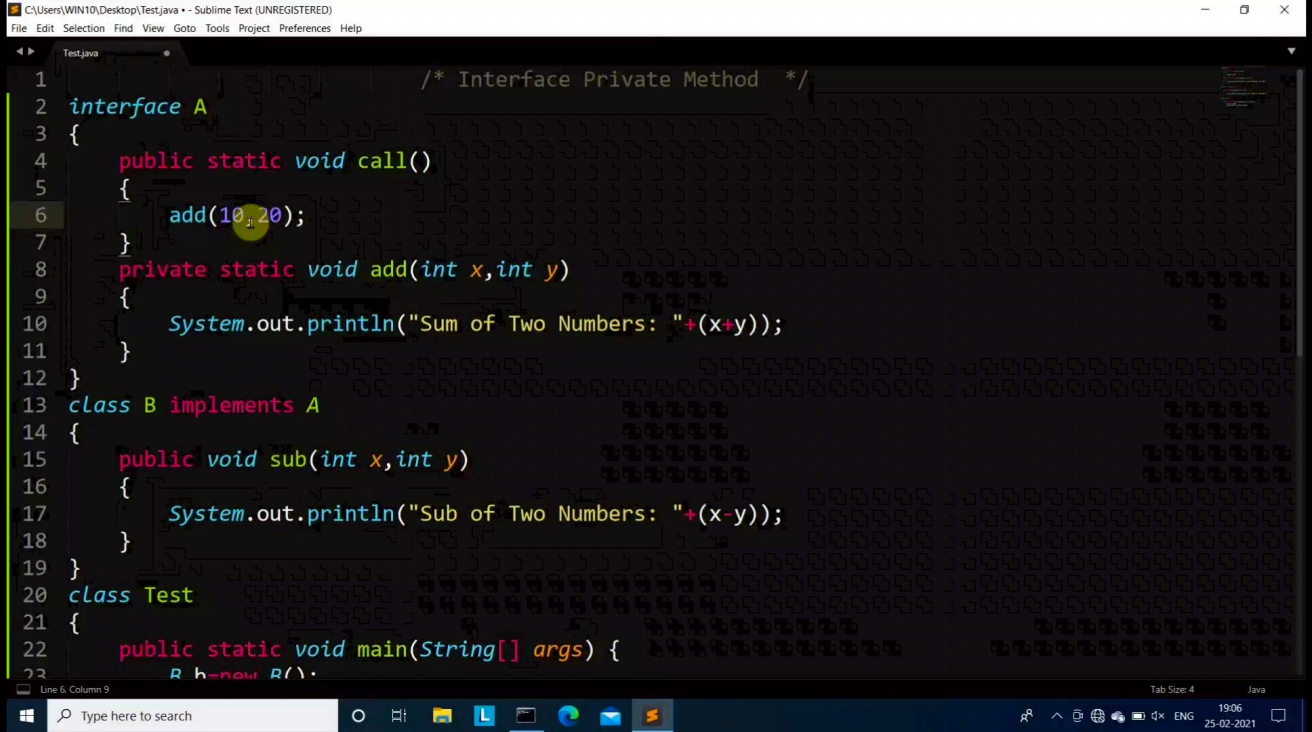

C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
private void add(int x,int y)
{
System.out.println("Sum of Two Numbers:
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers:
}
}
class Test
{
public static void main(String[] args) {
B b=new B();
b.add(20,10); b.sub(200,100);
}
}
Command Prompt - javac Test.java
C:\Users\WIN10\Desktop>javac Test.java
Line 20, Column 37; Saved C:\Users\WIN10\Desktop\Test.java (UTF-8)
Tab Size: 4
Java
Type here to search
ENG
19:04
25-02-2021

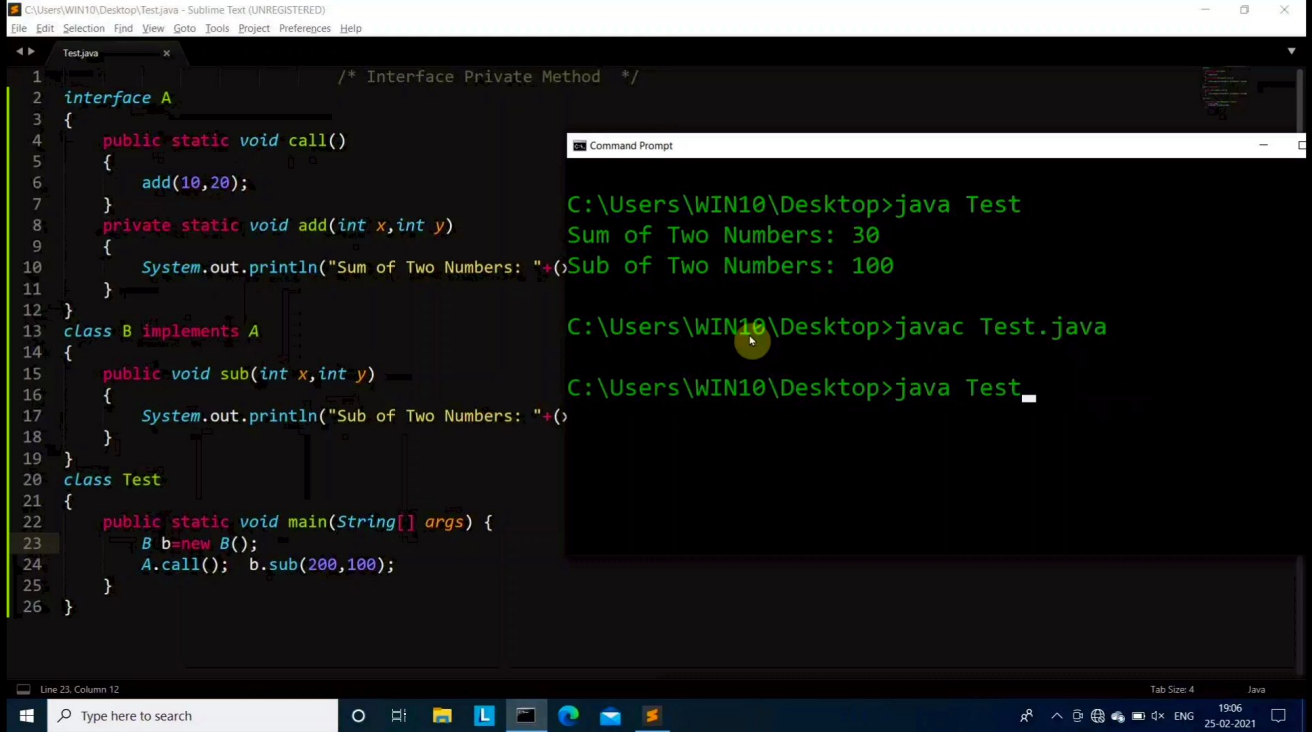

C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
private void add(int x,int y)
{
System.out.println("Sum of Two
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two
}
}
class Test
{
public static void main(String[] a
B b=new B();
b.add(20,10); b.sub(200,100);
}
}
Line 20, Column 37
Tab Size: 4
Java
Select Command Prompt
C:\Users\WIN10\Desktop>javac Test.java
Test.java:20: error: cannot find symbol
b.add(20,10); b.sub(200,100);
^
symbol: method add(int,int)
location: variable b of type B
1 error
C:\Users\WIN10\Desktop>
Type here to search
ENG
19:04
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
default void call()
{
add(10,20);
}
private void add(int x,int y)
{
System.out.println("Sum of Two Numbers: "+(x+y));
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers: "+(x-y));
}
}
class Test
{
public static void main(String[] args) {
Line 6, Column 18
Tab Size: 4
Java
Type here to search
ENG
19:05
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
default void call()
{
add(10,20);
}
private void add(int x,int y)
{
System.out.println("Sum of Two Numbers: "+(x+y));
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers: "+(x-y));
}
}
class Test
{
public static void main(String[] args) {
B b=new B();
b.call(); b.sub(200,100);
}
}
Reference:
Test.java:24
Line 24, Column 17
Tab Size: 4
Java
Type here to search
ENG
19:05
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
default void call()
{
add(10,20);
}
private void add(int x,int y)
{
System.out.println("Sum of Two N
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two N
}
}
class Test
{
public static void main(String[] args) {
B b=new B();
Select Command Prompt
C:\Users\WIN10\Desktop>java Test
Sum of Two Numbers: 30
Sub of Two Numbers: 100
C:\Users\WIN10\Desktop>
Line 10, Column 36
Tab Size: 4
Java
Type here to search
ENG
19:05
25-02-2021


C:\Users\WIN10\Desktop\Test.java • - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
public static void call()
{
add(10,20);
}
private static void add(int x,int y)
{
System.out.println("Sum of Two Numbers: "+(x+y));
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers: "+(x-y));
}
}
class Test
{
public static void main(String[] args) {
Line 6, Column 9
Tab Size: 4
Java
Type here to search
ENG
19:06
25-02-2021


C:\Users\WIN10\Desktop\Test.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Test.java
/* Interface Private Method */
interface A
{
public static void call()
{
add(10,20);
}
private static void add(int x,int y)
{
System.out.println("Sum of Two Numbers: "+(
}
}
class B implements A
{
public void sub(int x,int y)
{
System.out.println("Sub of Two Numbers: "+(
}
}
class Test
{
public static void main(String[] args) {
B b=new B();
A.call(); b.sub(200,100);
}
}
Command Prompt
C:\Users\WIN10\Desktop>java Test
Sum of Two Numbers: 30
Sub of Two Numbers: 100
C:\Users\WIN10\Desktop>javac Test.java
C:\Users\WIN10\Desktop>java Test
Line 23, Column 12
Tab Size: 4
Java
Type here to search
ENG
19:06
25-02-2021