```
import java.lang.*;
import java.io.*;
import java.io.FileWriter;
import java.io.IOException;
class lowercase
{
public static void main(String args[]) throws IOException
{
try
{
FileReader reader = new FileReader("filename.txt");
FileWriter writer = new FileWriter("filename.txt", true);
int character=' ';
char m;
while ((character = reader.read()) != -1)
{
m=Character.toLowerCase((char)character);
System.out.print(m);
writer.write(m);
}
reader.close();
writer.close();
}
catch (IOException e)
{
e.printStackTrace();
}
}
}
```

C:\Windows\System32\cmd.exe

```
C:\Users\Vinoth\Desktop>javac lowercase.java

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a stream is a sequence of bytes (or data or objects) that flow from a source to a destination
in a program, we read information from an input stream and write information to an output stream.
streams that input and output bytes are known as byte-based streams, representing data in its binary format.
streams that input and output characters are known as character-based streams, representing data as a sequence of characters.
files that are created using byte-based streams are referred to as binary files.
files created using character-based streams are referred to as text files. text files can be read by text editors.
java creates three stream objects when a program begins executing
system.in (the standard input stream object) normally inputs bytes from the keyboard
system.out (the standard output stream object) normally outputs character data to the screen
system.err (the standard error stream object) normally outputs character-based error messages to the screen.
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