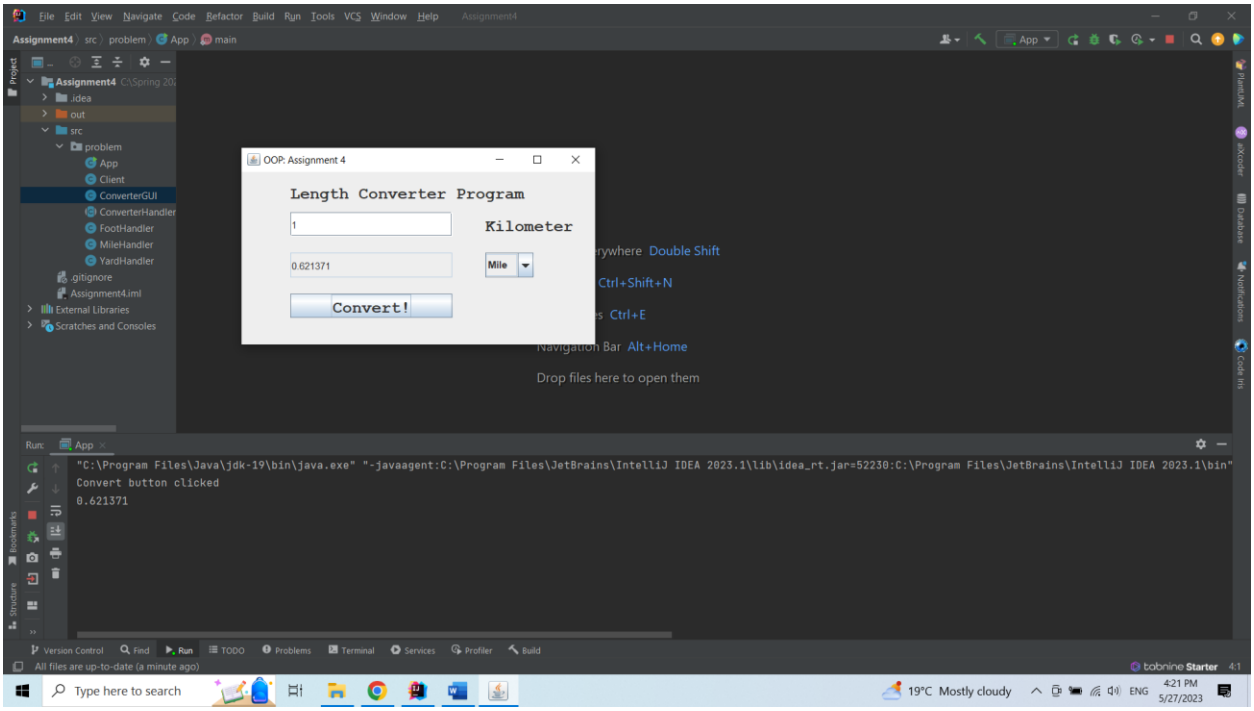
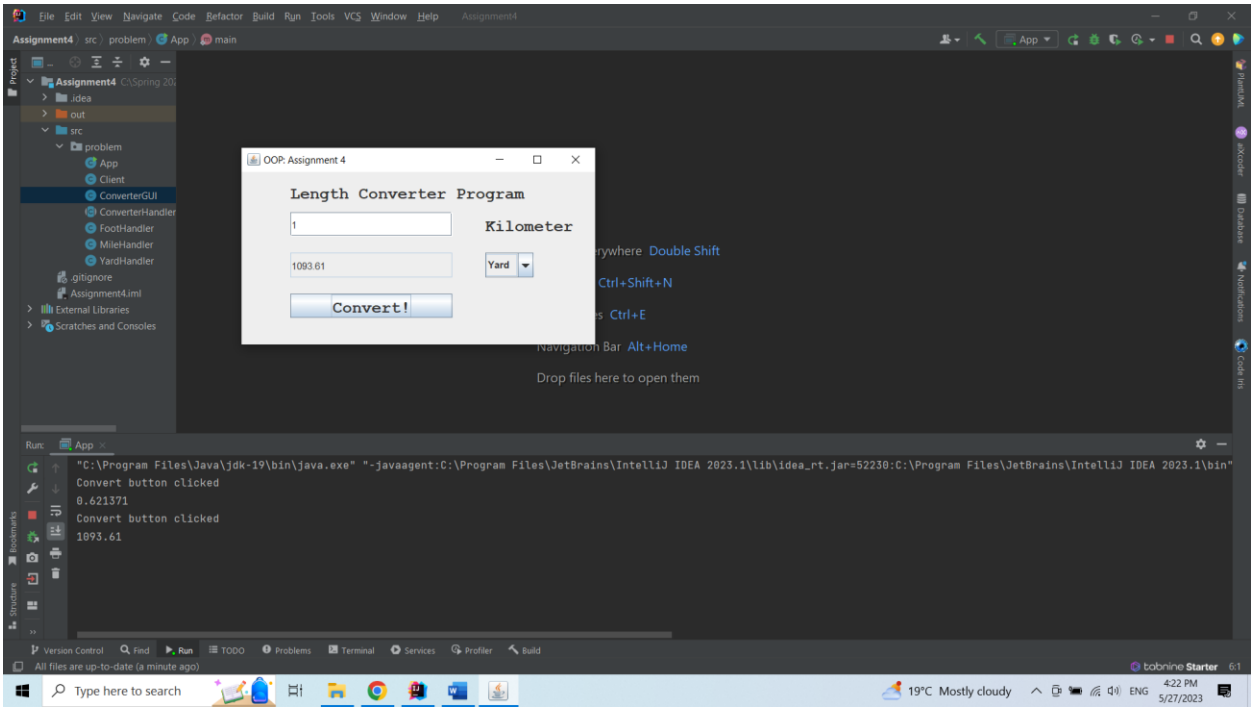
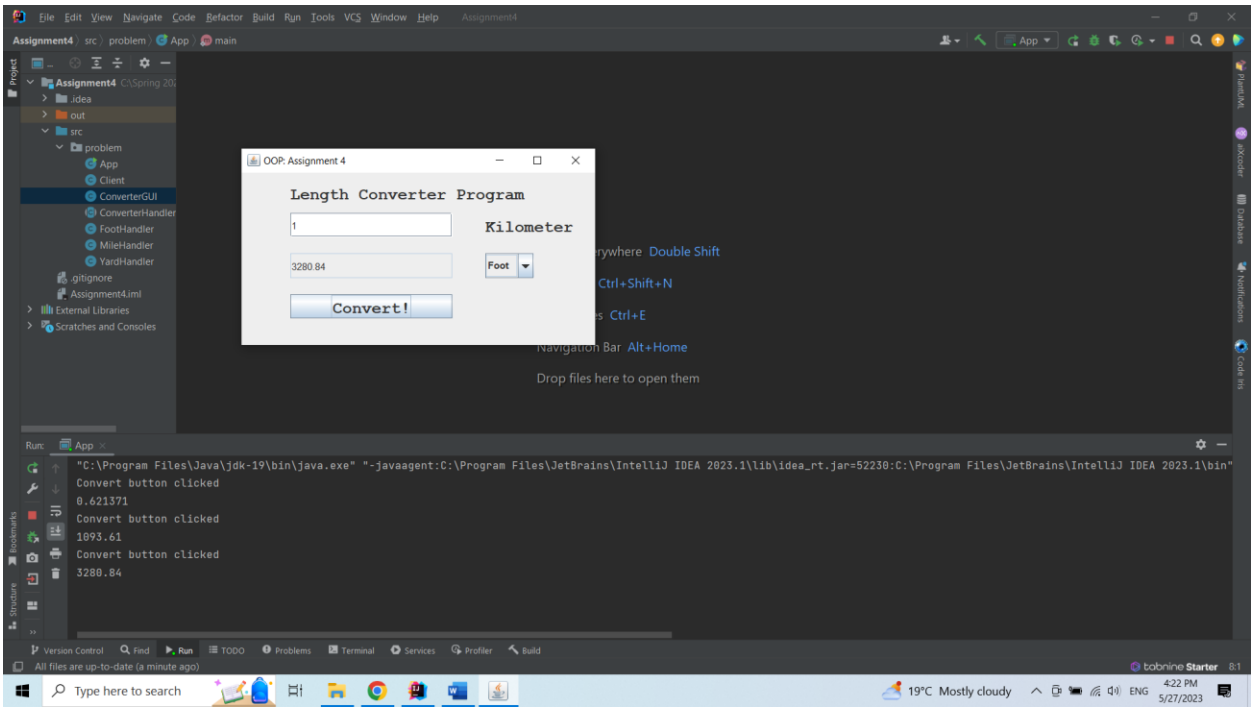
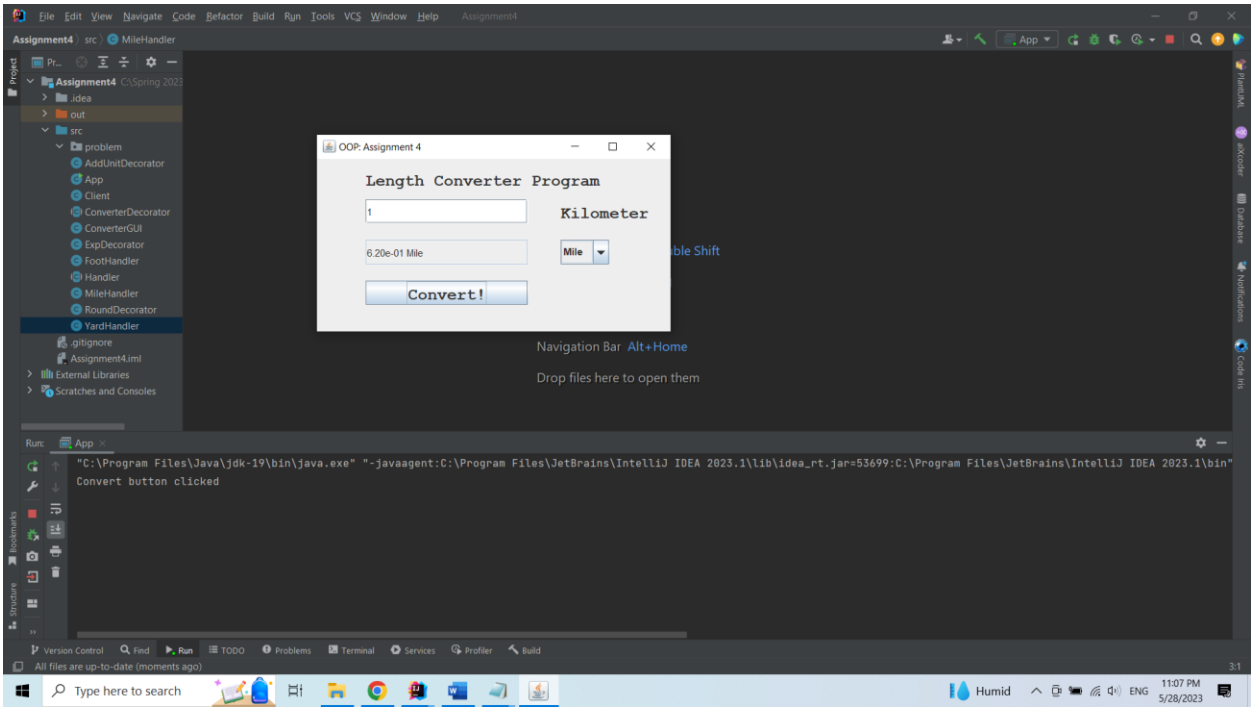
Part A

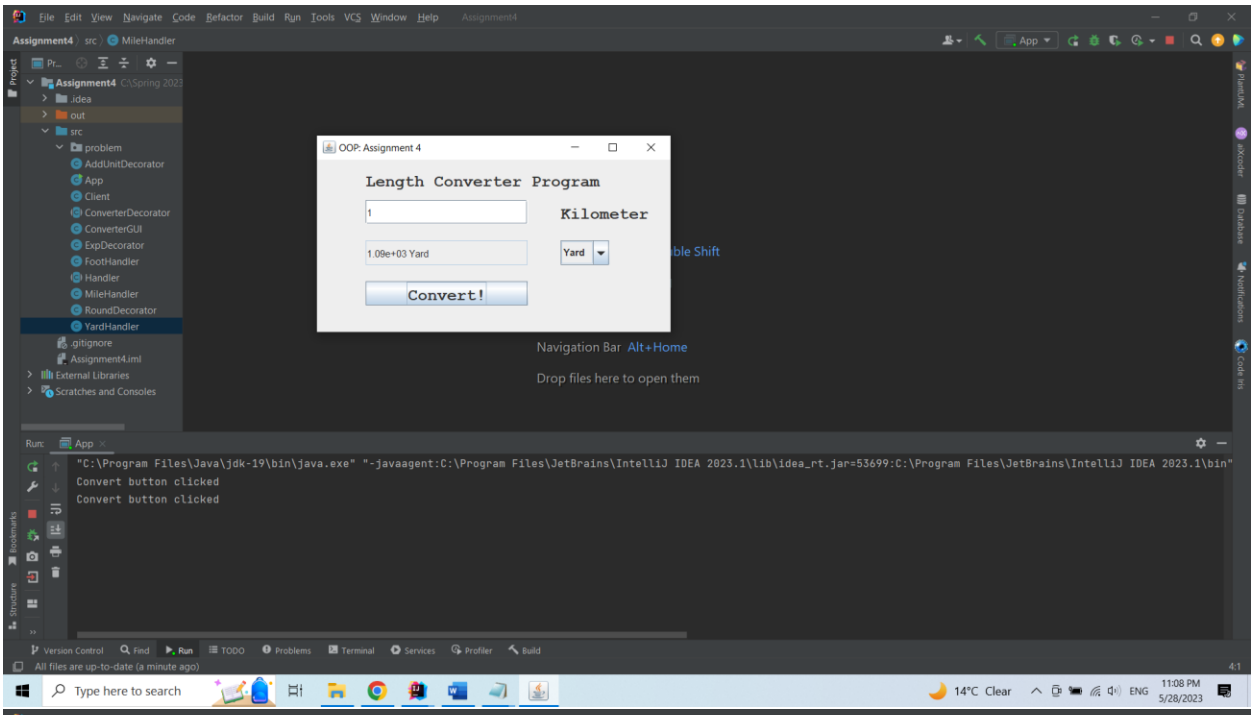

OOP: Assignment 4
Length Converter Program
1
Kilometer
0.621371
Mile
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=52230:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
0.621371

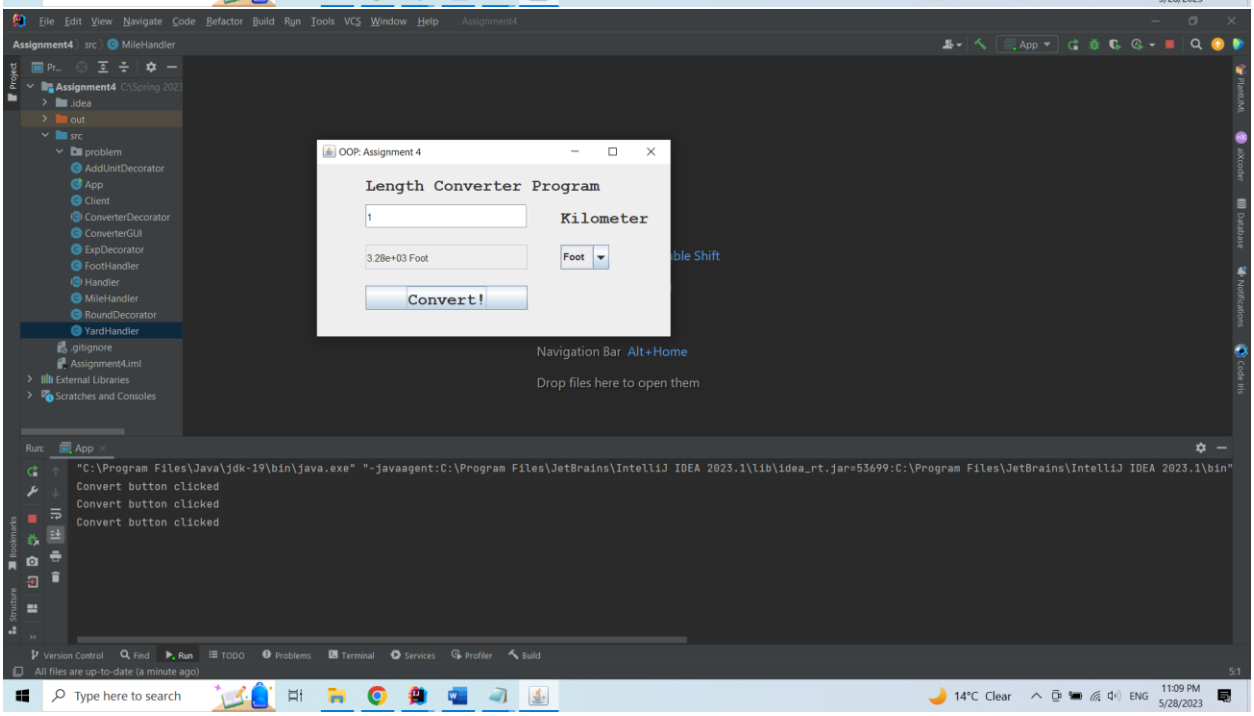

OOP: Assignment 4
Length Converter Program
1
Kilometer
1093.61
Yard
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=52230:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
0.621371
Convert button clicked
1093.61


OOP: Assignment 4
Length Converter Program
1
Kilometer
3280.84
Foot
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=52230:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
0.621371
Convert button clicked
1093.61
Convert button clicked
3280.84

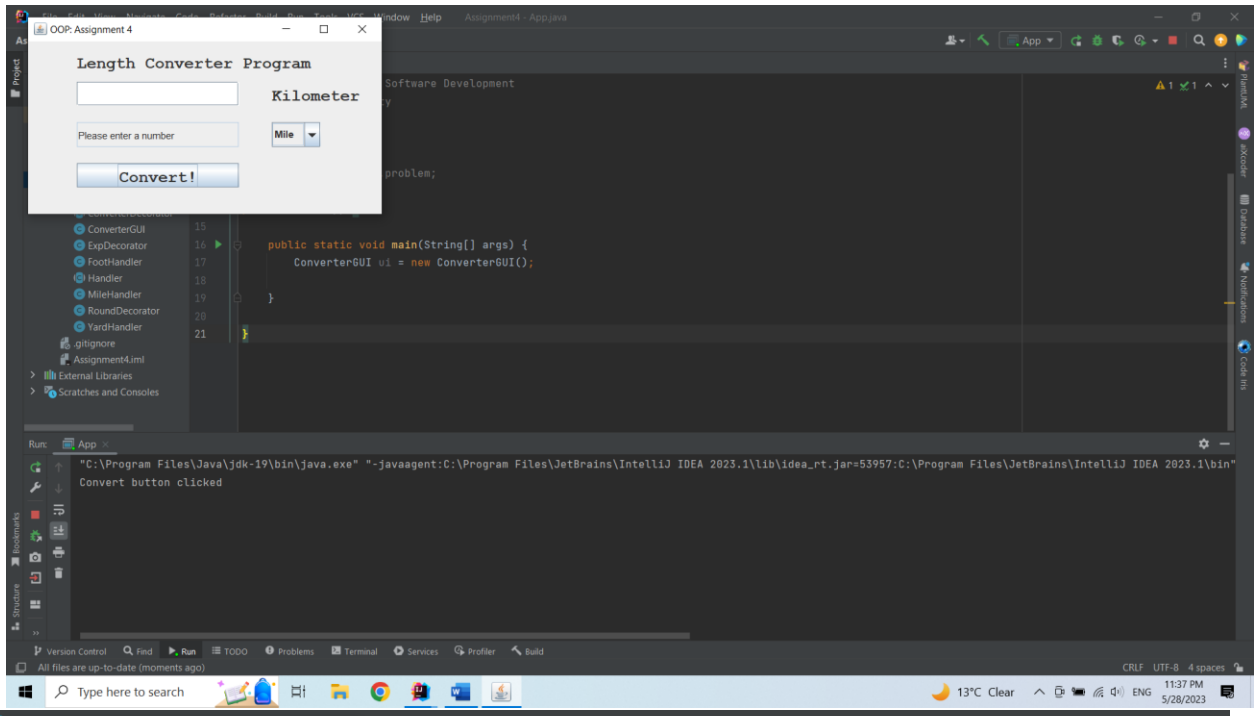
Part B:

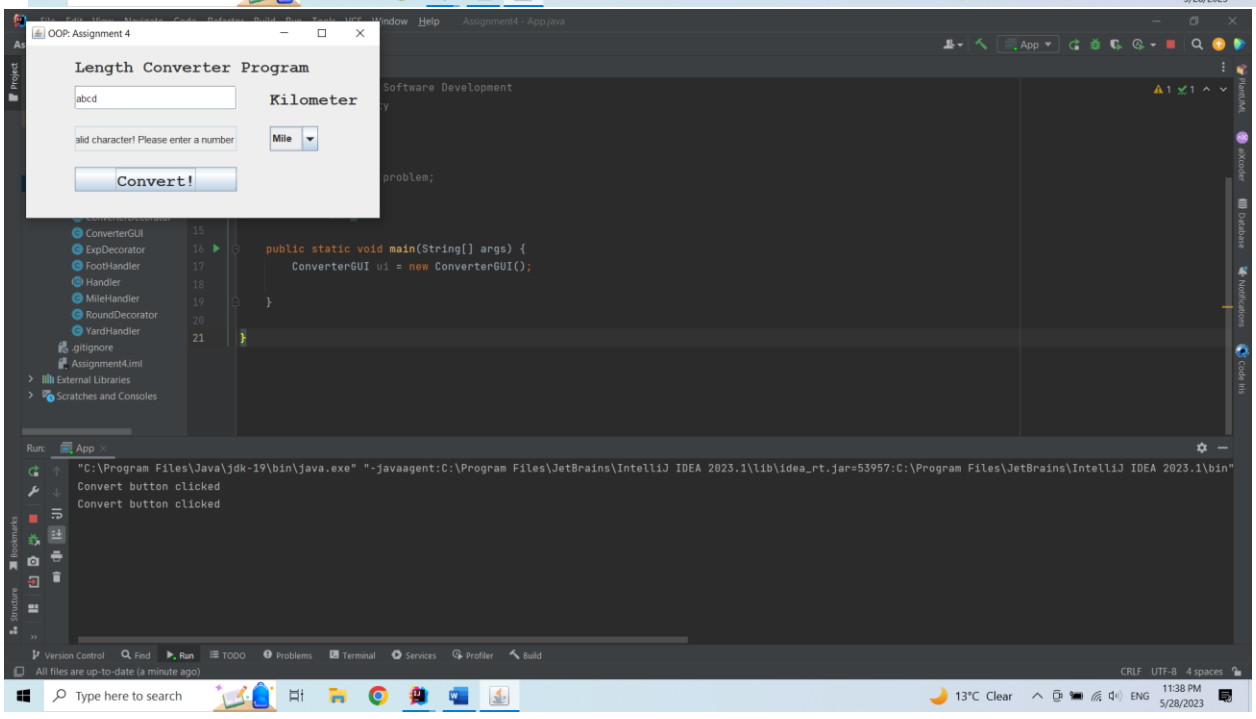

OOP: Assignment 4
Length Converter Program
1
Kilometer
6.20e-01 Mile
Mile
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53699:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked

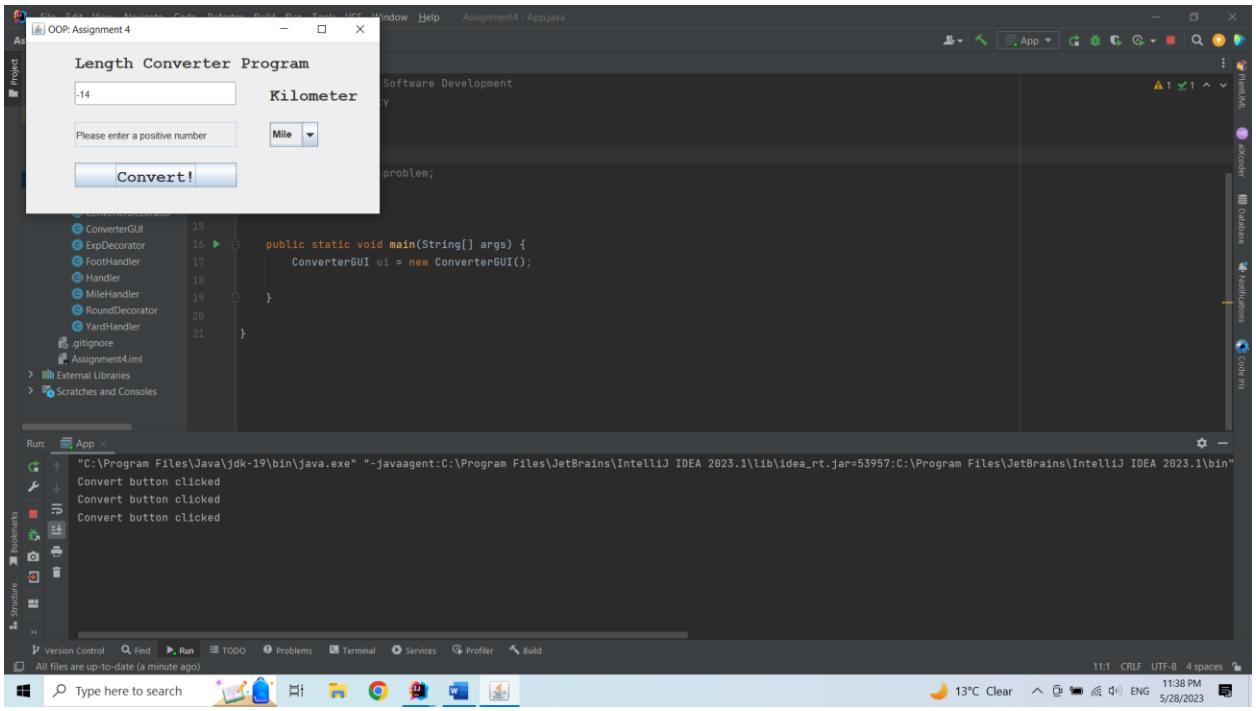

OOP: Assignment 4
Length Converter Program
1
Kilometer
1.09e+03 Yard
Yard
Convert!
Navigation Bar Alt+Home
Drop files here to open them
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53699:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
Convert button clicked


OOP: Assignment 4
Length Converter Program
1
Kilometer
3.28e+03 Foot
Foot
Convert!
Navigation Bar Alt+Home
Drop files here to open them
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53699:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
Convert button clicked
Convert button clicked

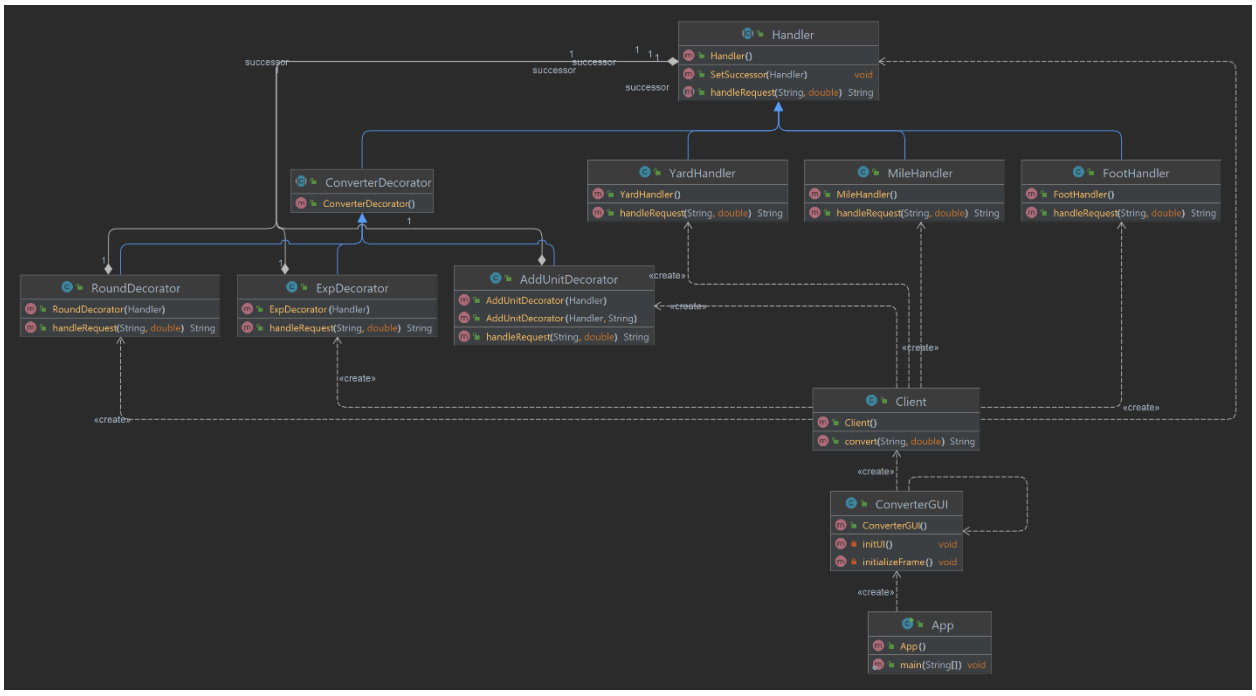
Valid input:


OOP: Assignment 4
Length Converter Program
Kilometer
Please enter a number
Mile
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53957:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked


OOP: Assignment 4
Length Converter Program
abcd
Kilometer
alid character! Please enter a number
Mile
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53957:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
Convert button clicked


OOP: Assignment 4
Length Converter Program
-14
Kilometer
Please enter a positive number
Mile
Convert!
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=53957:C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin"
Convert button clicked
Convert button clicked
Convert button clicked

UML


Handler
Handler()
SetSuccessor(Handler) void
handleRequest(String, double) String
successor
ConverterDecorator
ConverterDecorator()
YardHandler
YardHandler()
handleRequest(String, double) String
MileHandler
MileHandler()
FootHandler
FootHandler()
RoundDecorator
RoundDecorator(Handler)
ExpDecorator
ExpDecorator(Handler)
AddUnitDecorator
AddUnitDecorator(Handler)
AddUnitDecorator(Handler, String)
«create»
Client
Client()
convert(String, double) String
ConverterGUI
ConverterGUI()
initUI() void
initializeFrame() void
App
App()
main(String[]) void