Java Essentials Module 2 Case Study 2

Please use the jar file to test the program.

Command: java -jar Module2CaseStudy2.jar

Notes:

* Receive call is not on main menu as not realistic
* Program is in infinite for loop
* Every even number loop of program will trigger receive call function
* Input 999 as number in dial() for recognised number
* Object references demonstrated
* Mobile class could be redesigned to utilise constructor (currently includes main)

# Mobile Class:

**import** java.util.Scanner;

**public** **class** Mobile {

**static** Scanner *mobileInput* = **new** Scanner(System.***in***);

**static** String *numberInput*;

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

String menuInput;

**for**(**int** i = 1;;i++) {

**if** (i % 2 == 1) {

System.***out***.println("Select your service:");

System.***out***.println("1. Call");

System.***out***.println("2. Message");

menuInput = *mobileInput*.nextLine();

**if** (menuInput.contentEquals("1"))

Mobile.*dial*();

**if** (menuInput.contentEquals("2"))

Mobile.*message*();

} **else**

Mobile.*receive*();

System.***out***.println("\n--------------------------------------- \n");

}

}

# Dial Function

**public** **static** **void** dial() {

System.***out***.println("Please enter number to call: ");

*numberInput* = *mobileInput*.nextLine();

**if** (*numberInput*.equals("999")) {

System.***out***.println("Which emergency service do you require? ");

} **else**

System.***out***.println("Number not recognised. ");

}

# Receive Function

**public** **static** **void** receive() {

System.***out***.println("Call from 07674567899 ");

System.***out***.println("1. Answer ");

System.***out***.println("2. Ignore ");

String receiveInput = *mobileInput*.nextLine();

**if** (receiveInput.contentEquals("1")) {

System.***out***.println("Hello? ");

System.***out***.println("Hello? Is Dave there?");

System.***out***.println("No, this is Mike. You've got the wrong number.");

System.***out***.println("Oh, okay. Sorry, bye.");

}

**if** (receiveInput.contentEquals("2"))

System.***out***.println("Missed call");

}

# Message Function

**public** **static** **void** message() {

System.***out***.println("Please enter number to message: ");

*numberInput* = *mobileInput*.nextLine();

System.***out***.println("Enter text: ");

*numberInput* = *mobileInput*.nextLine();

System.***out***.println("Message sent ");

}

}

# Output:

Select your service:

1. Call

2. Message

1

Please enter number to call:

999

Which emergency service do you require?

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Call from 07674567899

1. Answer

2. Ignore

2

Missed call

---------------------------------------

Select your service:

1. Call

2. Message

2

Please enter number to message:

05678993345

Enter text:

Hi!

Message sent

---------------------------------------

Call from 07674567899

1. Answer

2. Ignore

1

Hello?

Hello? Is Dave there?

No, this is Mike. You've got the wrong number.

Oh, okay. Sorry, bye.

---------------------------------------

Select your service:

1. Call

2. Message