Test 1 : Adding a mobile to the array list

Gadget Shop

|			
Model:	Price:	Weight:	Size:
Samsung	999.99	300	81mmx84mmx45mm
Credit:	Memory:	Add Mobile	Add MP3
		Clear	Display All
Phone Num:	Duration:	Download:	Display Number:
Make A Call	Download Music		
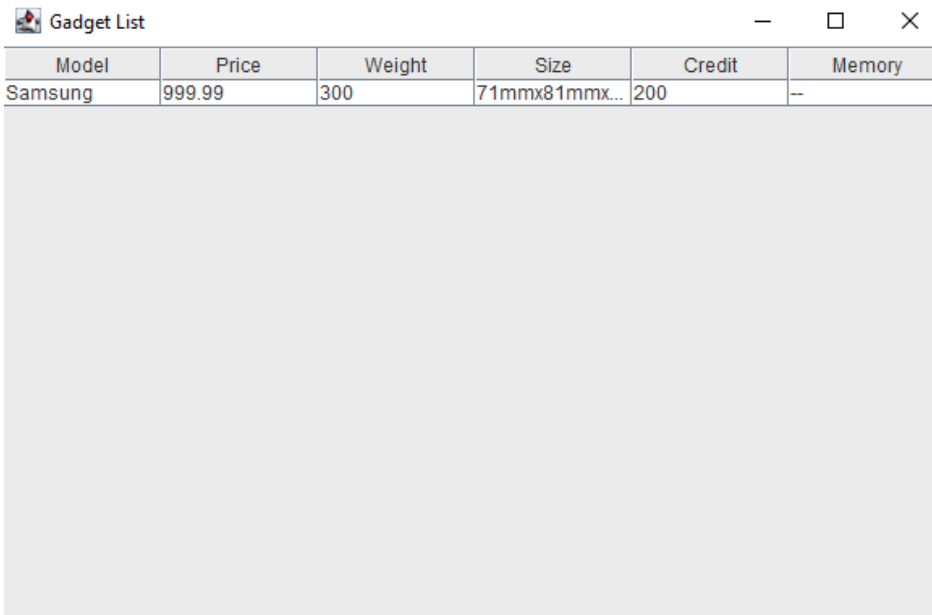
As you can see i added the data for the mobile in their respective data type

Error

❌ Invalid Credit!

OK
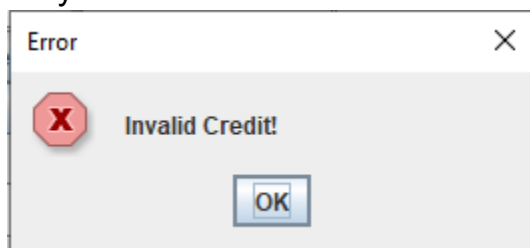
A 'invalid credit' message pops up as you need to enter credit for the mobile to be viable

Success

ⓘ Success! Mobile Saved

OK
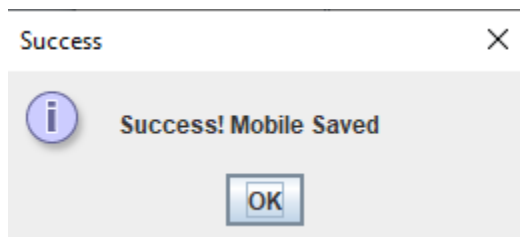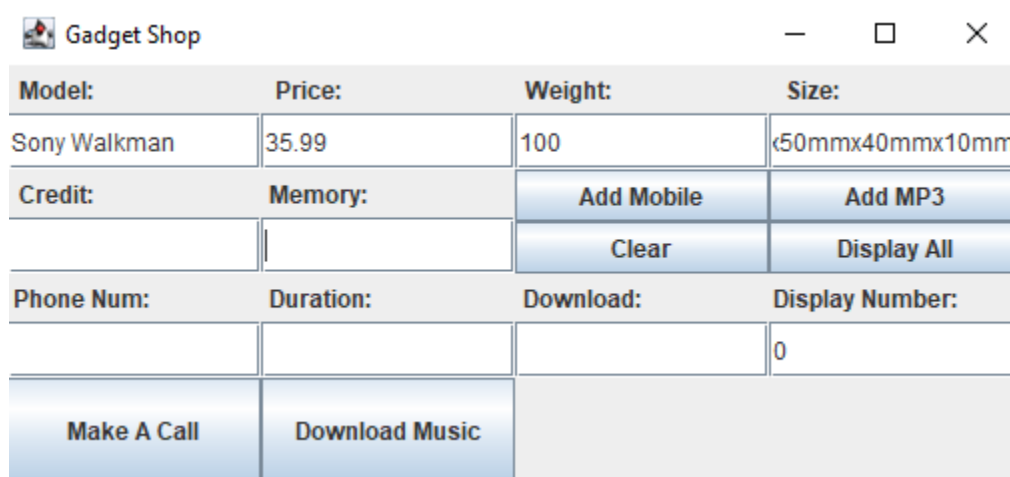
After adding credit a notification pops up saying it has been saved.

Gadget List

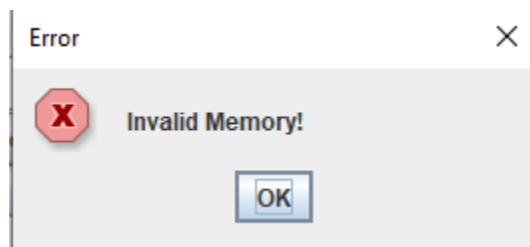| Model	Price	Weight	Size	Credit	Memory
Samsung	999.99	300	71mmx81mmx...	200	--

By clicking the 'display all' button an array list will pop up named 'Gadget List' and will show all the saved devices as you can see the data i inputted is saved.

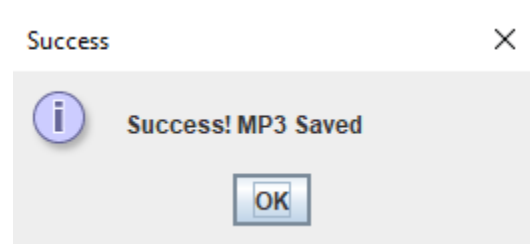### *Test 2: Adding a Mp3 to the array list*

Gadget Shop — □ ✕

Model:	Price:	Weight:	Size:
Sony Walkman	35.99	100	‹50mmx40mmx10mm

Credit:	Memory:	Add Mobile	Add MP3
		Clear	Display All

Phone Num:	Duration:	Download:	Display Number:
			0

Make A Call	Download Music		
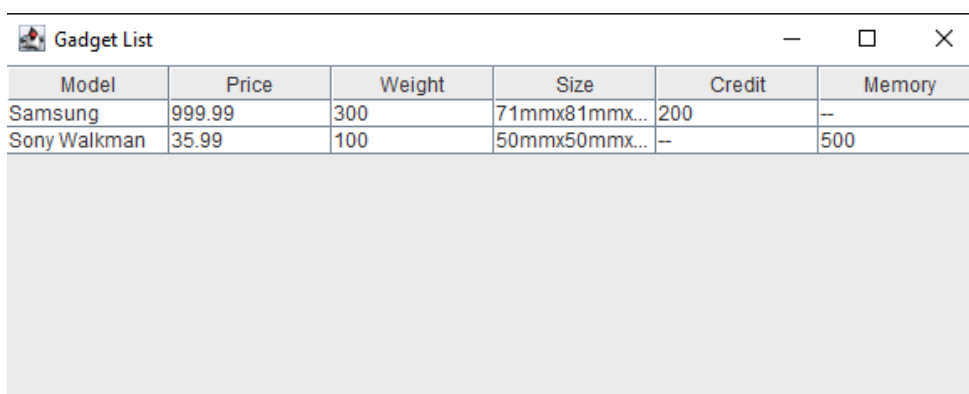
I inputted the data for the MP3

Error ✕

❌ Invalid Memory!

OK

As i didn't add the amount of memory this notification pops up

Success ✕

ⓘ Success! MP3 Saved

OK

After adding the memory this notification shows meaning it has saved it to the array list

Gadget List — □ ✕

Model	Price	Weight	Size	Credit	Memory
Samsung	999.99	300	71mmx81mmx... 200		--
Sony Walkman	35.99	100	50mmx50mmx...	--	500

Test 3: Displaying all gadgets in the array list

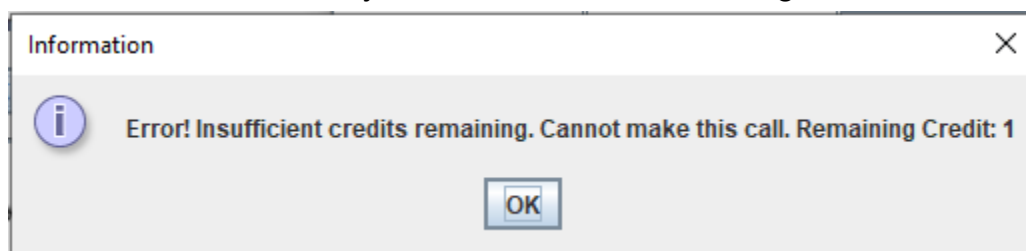Proof has been confirmed in previous tests above as it has saved the mobile plus the mp3

Test 4: Making a call

To make a phone call you have to make sure that you have a phone number and you are using a mobile (you can do this by selecting which gadget by writing on the display number the first device starts at 0 instead of one)which device you want selected.

```
Error                                    ✕
 ⊗   The selected gadget is an MP3. It doesn't support calls.

            OK
```
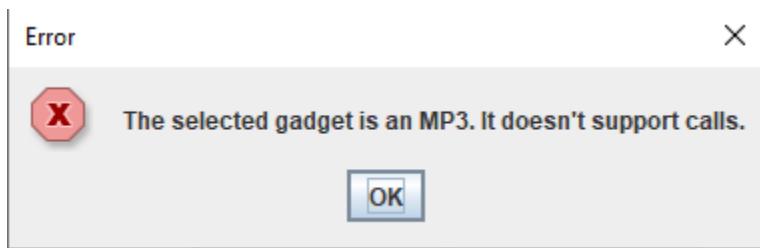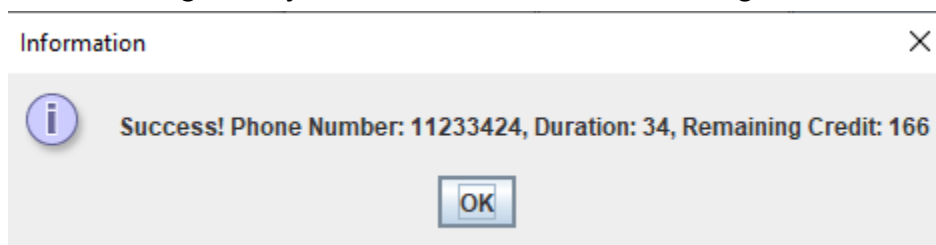
This is what will show if you try to make a call with a mp3

After selecting a mobile you will also have to make sure that you have enough credits for the mobile if you do not then this message will show

```
Information                                    ✕
 ⓘ   Error! Insufficient credits remaining. Cannot make this call. Remaining Credit: 1

            OK
```

1 credit equates to 1 second of the duration of a phone call so with 1 credit you can make a second call. I tried a 34 second call which prompted this to show.
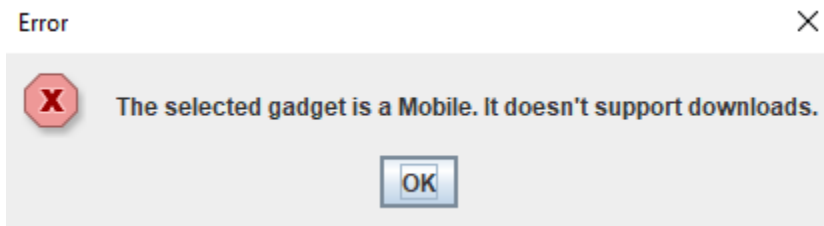
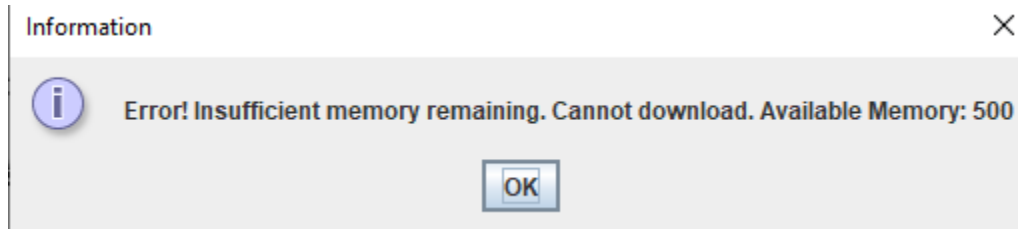After making sure you have a number and enough credits this will show up.

```
Information                                    ✕
 ⓘ   Success! Phone Number: 11233424, Duration: 34, Remaining Credit: 166

            OK
```

A call has been made and 34 credit(as the call was 34 seconds) has been deducted from the credit balance for that device.

Test 5: Downloading Music

When downloading music you have to make sure that you have a mp3 selected and have enough storage to download the music if you do not have a mp3 selected this message will show.

Error ✕

❌ The selected gadget is a Mobile. It doesn't support downloads.

OK

If you do not have enough download space then this message will show.

Information ✕

ⓘ Error! Insufficient memory remaining. Cannot download. Available Memory: 500

OK

After checking you have a mp3 and enough credit type the download size in this section

Gadget Shop   —   ☐   ✕

Model:	Price:	Weight:	Size:
Credit:	Memory:	Add Mobile	Add MP3
1		Clear	Display All
Phone Num:	Duration:	Download:	Display Number:
		450	1
Make A Call	Download Music		

After inputting your data click the 'Download Music' button and if all the data input is correct this message will show.

Information ✕

ⓘ Success! Available Memory: 50

OK
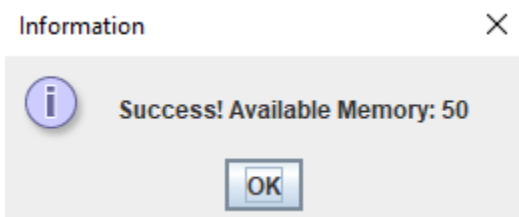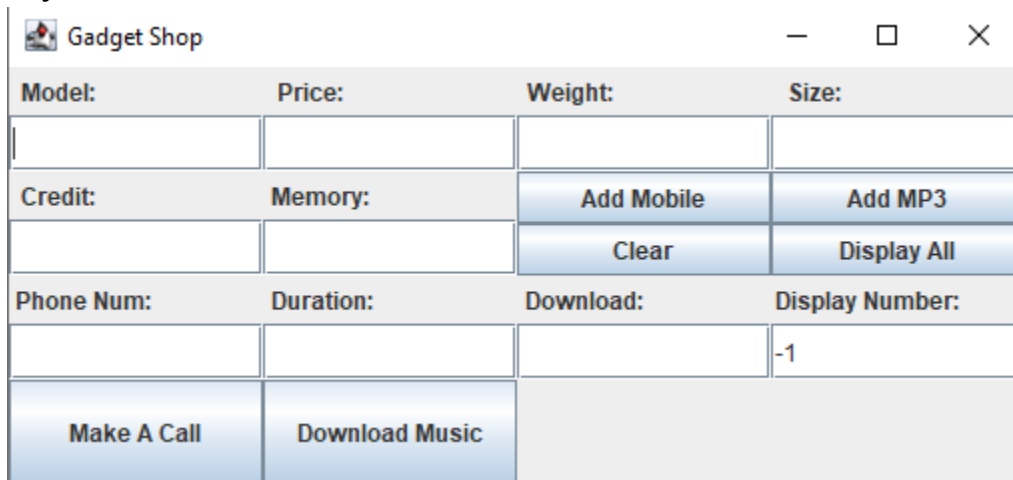
It will say Success and will tell how many memory you left available.

Test 6: Test that appropriate dialog boxes appear when unsuitable values are entered for the display number
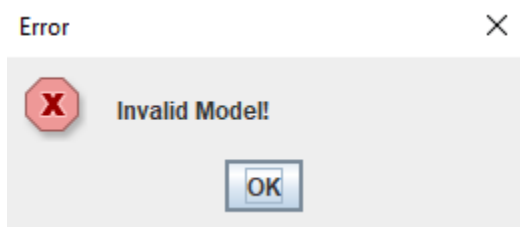
Mobile

If you don't enter a model name for a mobile
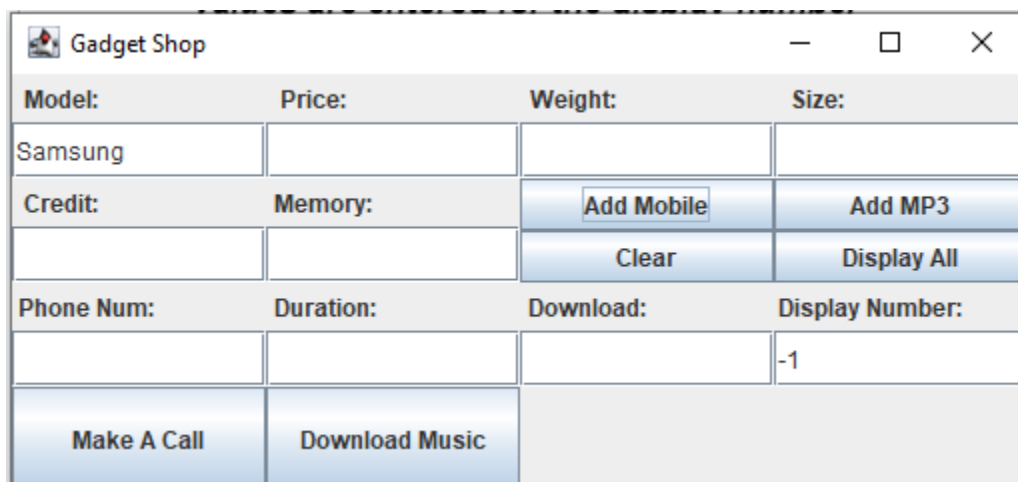
This message will pop up. If you press Add mobile

If you enter a model name and then press Add mobile or mp3
It will show this message

Error ✕

Ⓧ **Invalid Price!**

OK
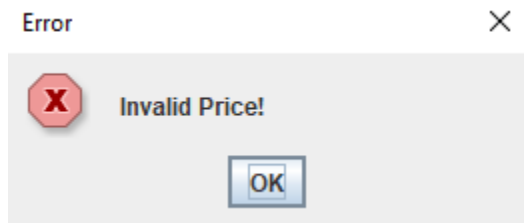
If you enter the price but don't enter the weight of the mobile

Gadget Shop — □ ✕

Model:	Price:	Weight:	Size:
Samsung	999		

Credit:	Memory:	Add Mobile	Add MP3
		Clear	Display All

Phone Num:	Duration:	Download:	Display Number:
			-1

Make A Call	Download Music	

This message will show

Error ✕

Ⓧ **Invalid Weight!**

OK
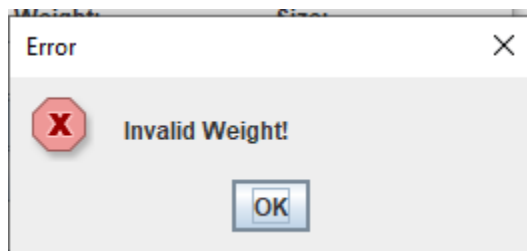
If you enter the weight and price but don't enter the size this message will pop up

Error ✕

Ⓧ **Invalid Size!**

OK
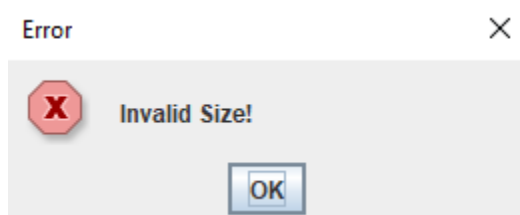
If you have entered everything but not any credit.

This message will show up
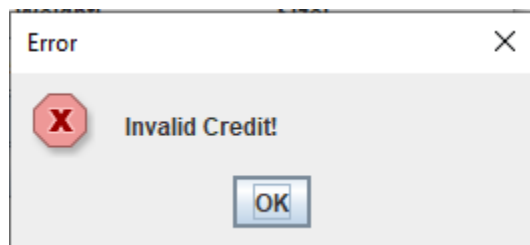
After adding everything this message will show up

Mp3

If you don't enter a model name for a mp3

This message will pop up. If you press Add mp3

If you enter the model but not anything else this message will show.
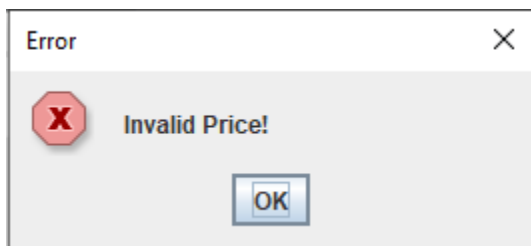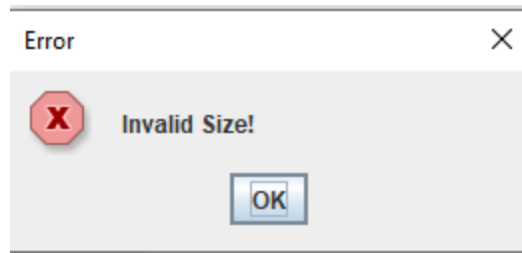

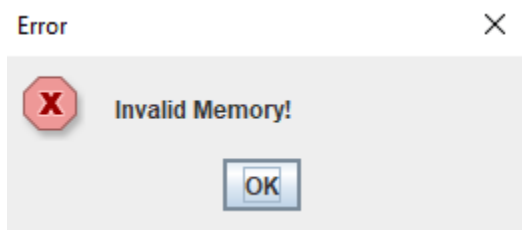If you add the price and model but not anything else this message will show up

If you add the price , model and weight but not anything else this message will show up.

Error   ✕

    ✕   **Invalid Size!**

             OK

If you add the price,model,weight and size but not memory this message will pop up.

Error   ✕

    ✕   **Invalid Memory!**

             OK

If you add every data (price,model,weight and memory) this message will show

Gadget Shop   —   ☐   ✕

Model:	Price:	Weight:	Size:
Walkman	87.99	300	‹67mmx54mmx45mm

Credit:	Memory:		
	500	**Add Mobile**	**Add MP3**
		Clear	**Display All**

Phone Num:	Duration:	Download:	Display Number:
			-1

Make A Call	**Download Music**	

Success   ✕

    i   **Success! MP3 Saved**
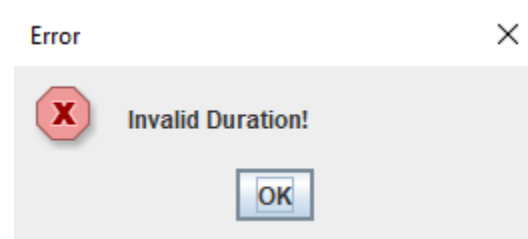
             OK

Making a call

If you don't have a phone number added on the gadget shop and try to make a call then this message will show up
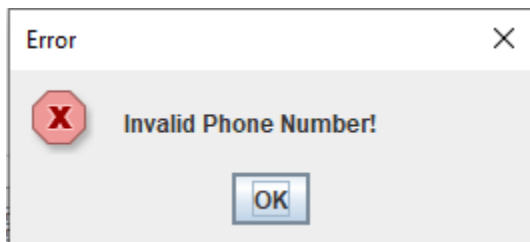
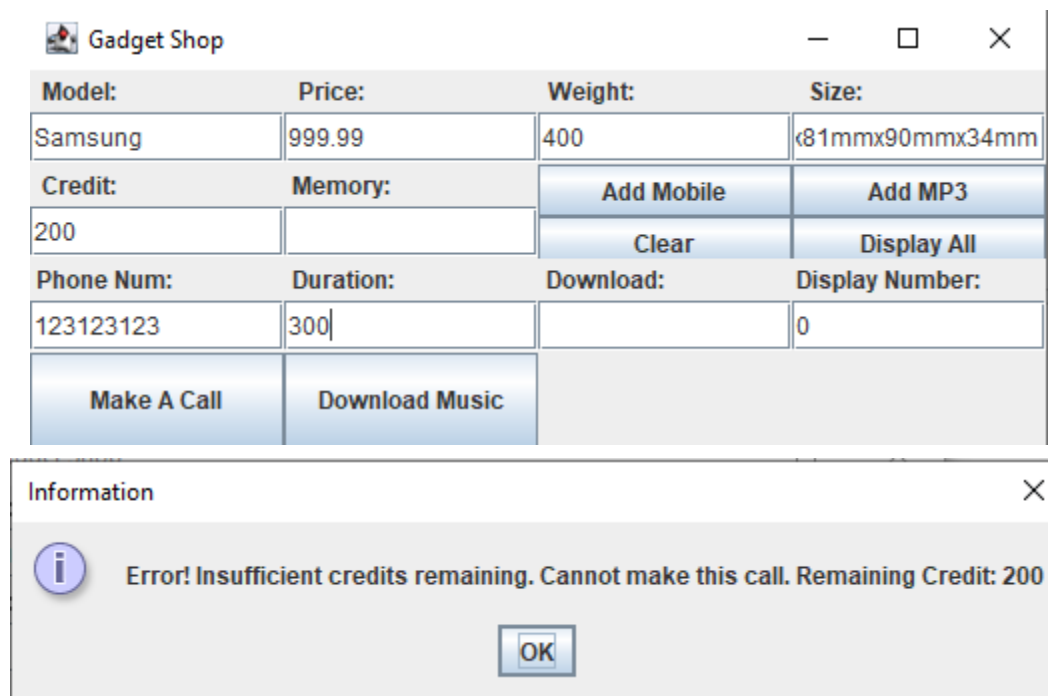If you have a phone number added but have not inputted the duration of the call then this message will show up

If you make a call but it is longer than+ the amount of credits you have (1 credit = 1 second of call time) it will show this message.

Gadget Shop

Model:	Price:	Weight:	Size:
Samsung	999.99	400	‹81mmx90mmx34mm

Credit:	Memory:	Add Mobile	Add MP3
200		Clear	Display All

Phone Num:	Duration:	Download:	Display Number:
123123123	300		0

Make A Call   Download Music

Information

(i) Error! Insufficient credits remaining. Cannot make this call. Remaining Credit: 200

OK

After making sure you have the right amount of credits for the right amount of call duration this message will pop also showing the remaining credits you have left in that certain mobile gadget.
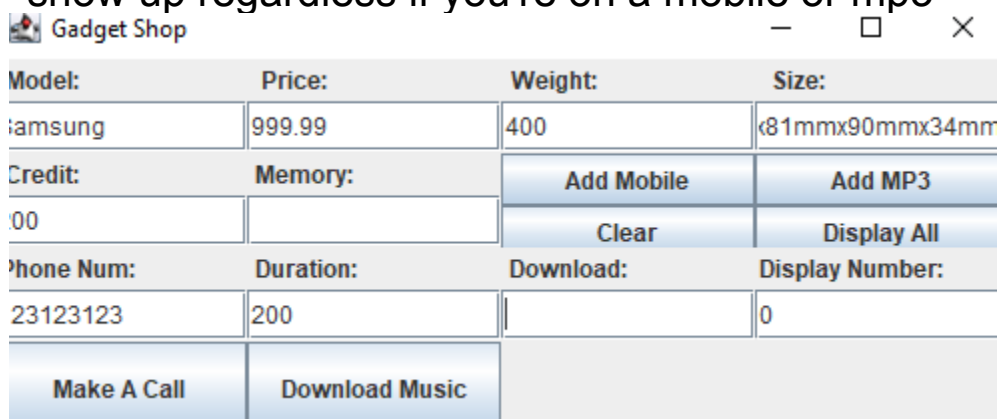
Information

(i) Success! Phone Number: 123123123, Duration: 200, Remaining Credit: 0

OK

Downloading Music

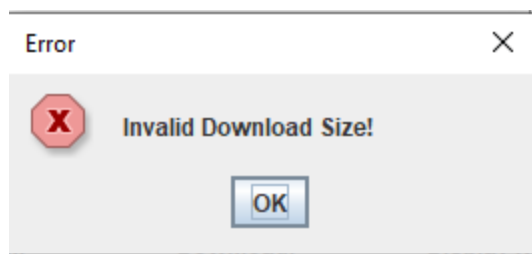If you don't have a download size inputted then this message will show up regardless if you're on a mobile or mp3

Gadget Shop

Model:	Price:	Weight:	Size:
Samsung	999.99	400	‹81mmx90mmx34mm

Credit:	Memory:	Add Mobile	Add MP3
00		Clear	Display All

Phone Num:	Duration:	Download:	Display Number:
23123123	200		0

Make A Call   Download Music

Error ✕

❌ **Invalid Download Size!**

OK

If you inputted a download size but have not selected a mp3 then this message will pop up.

Error ✕

❌ **The selected gadget is a Mobile. It doesn't support downloads.**

OK
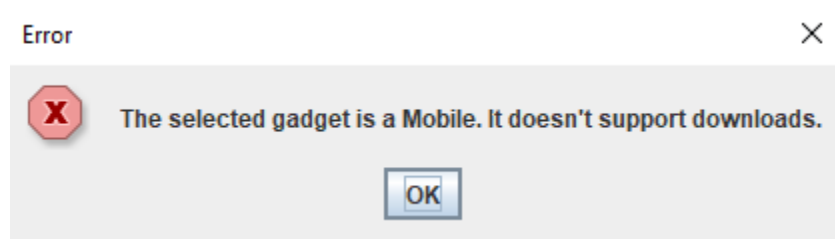
If you selected a mp3 but haven't have enough memory to download this message will pop up

Gadget List — □ ✕

Model	Price	Weight	Size	Credit	Memory
Samsung	999.99	400	71mmx81mmx...	0	--
Walkman	70.99	150	71mmx81mmx...	--	100

Information ✕

ℹ **Error! Insufficient memory remaining. Cannot download. Available Memory: 100**

OK
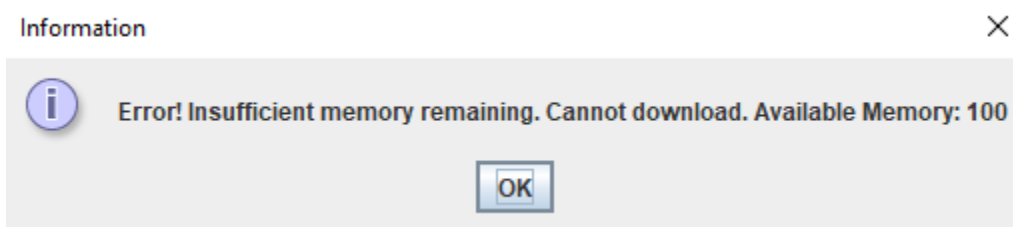
When making sure that you have a mp3 selected and have enough memory to download music this message will show up.