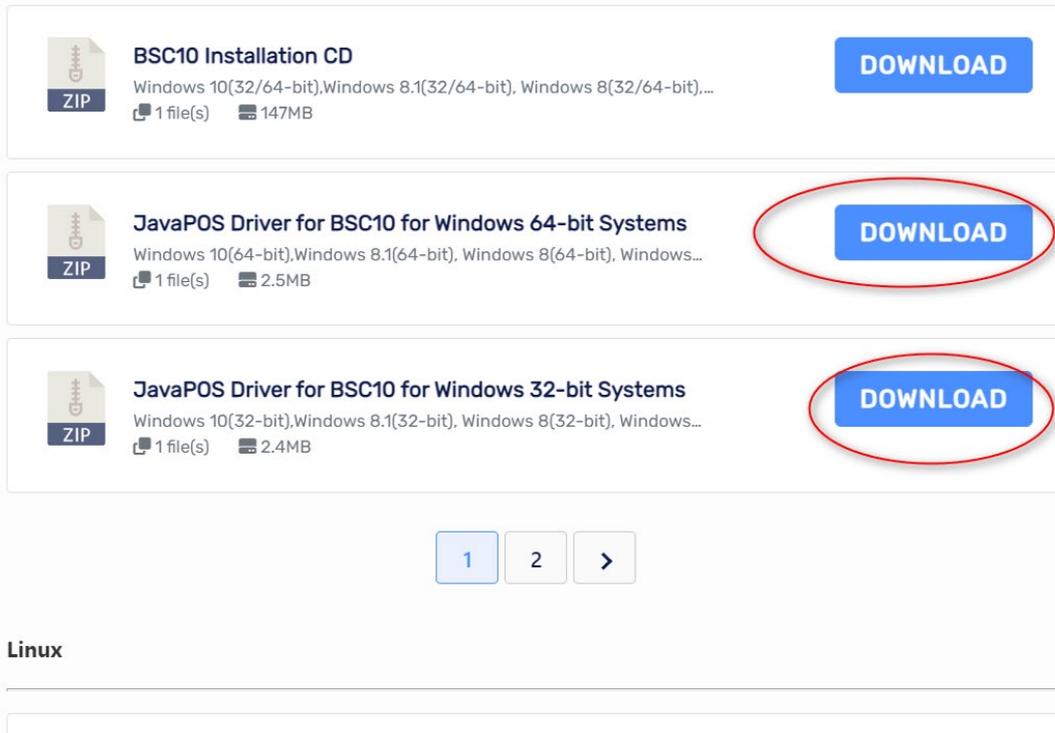


How to set up printer to test print JavaPOS & Cashdrawer [BSC10U Model]

*This instruction is testing on Windows 7 and connecting printer through USB Cable

*Need to download and install driver printer before following this instruction

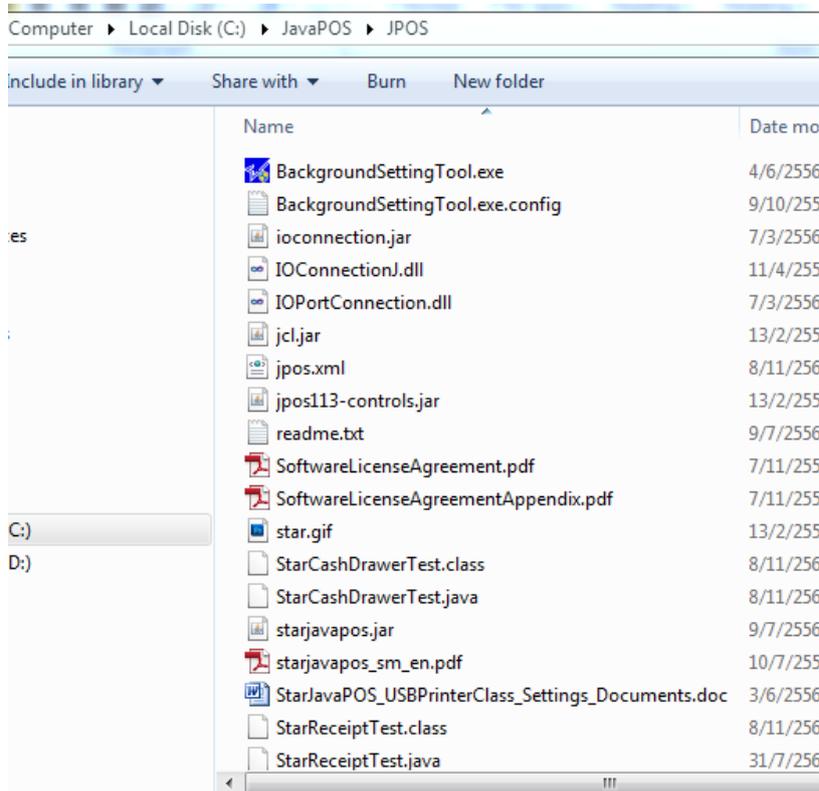
1. Download JavaPOS from website <https://starmicronics.com/support/products/bsc10-support-page/>



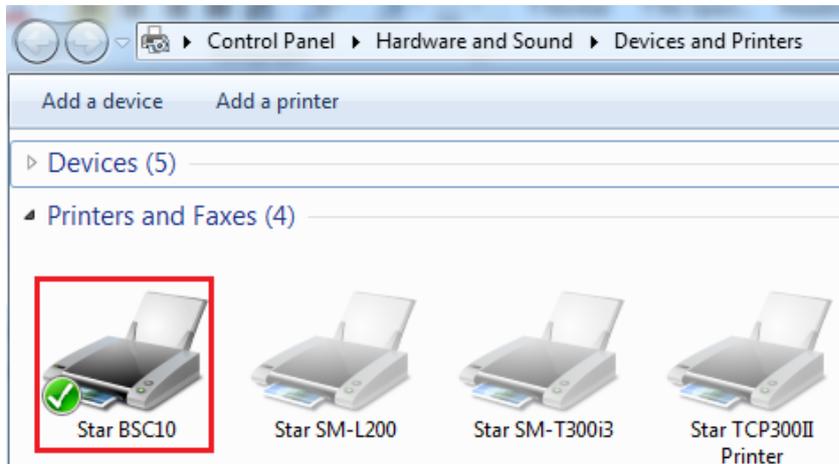
The screenshot shows a web interface with three download cards. The first card is for 'BSC10 Installation CD' (147MB). The second card is for 'JavaPOS Driver for BSC10 for Windows 64-bit Systems' (2.5MB), with its 'DOWNLOAD' button circled in red. The third card is for 'JavaPOS Driver for BSC10 for Windows 32-bit Systems' (2.4MB), with its 'DOWNLOAD' button also circled in red. Below the cards are navigation buttons for '1', '2', and a right arrow.

Linux

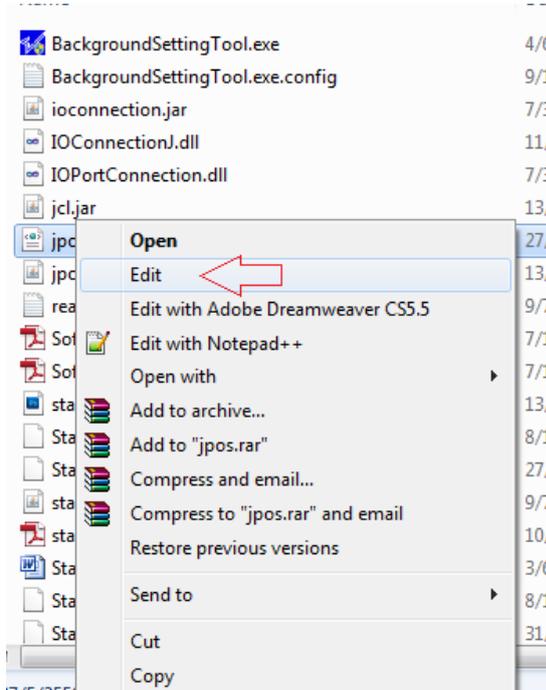
2. Create folder "JavaPOS\JPOS" on Disk C: [C:\JavaPOS\JPOS] and copy + paste file from original folder into new folder which you created.



3. Connect printer to windows through USB Cable then windows will be get driver printer automatically [Control Panel > Device and Printer]



4. Get into folder C:\JavaPOS\JPOS then right click at "jpos.xml" file and select "Edit"



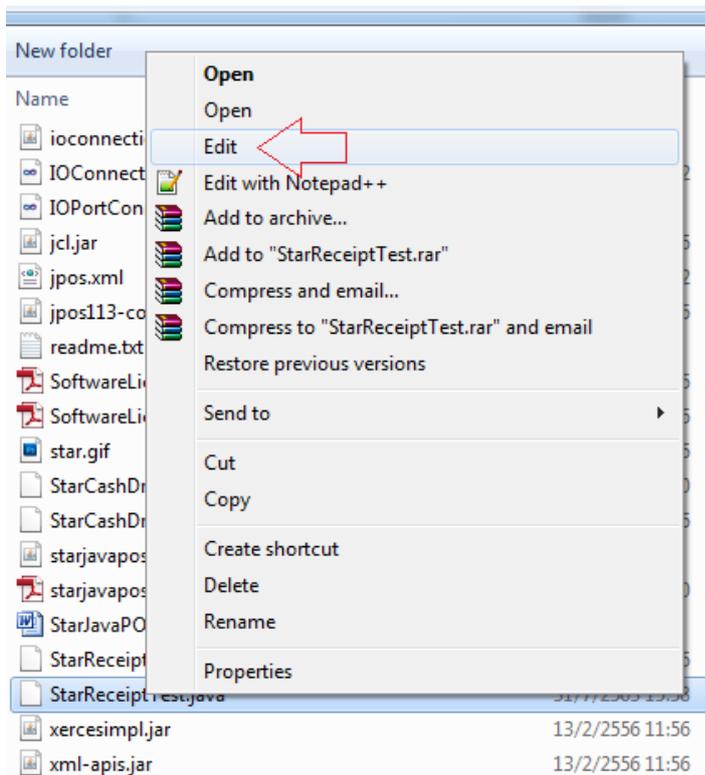
5. Change “POSPrinter_windows_usb_printer_class” to “BSC10” [No.1] and fill in “BSC10” at the model [No.2] and save file

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE JposEntries PUBLIC "-//JavaPOS/DTD//EN" "jpos/res/jcl.dtd">
<JposEntries>

<JposEntry logicalName="POSPrinter_windows_serial">
<creation factoryClass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceClass="com.starmicronics.starjavapos.POSPrinterService" />
<vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm" />
<jpos category="POSPrinter" version="1.13" />
<product description="Thermal receipt printer" name="Star Micronics POSPrinter controller" url="www.star-m.jp/eng/index.htm"/>
<prop name="model" type="String" value="BSC10" />
<prop name="portName" type="String" value="COM1" />
<prop name="portSettings" type="String" value="9600,n,8,1,h" />
<prop name="ioTimeoutMills" type="Integer" value="5000" />
<prop name="emulation" type="String" value="ESC/POS" />
<prop name="doCheckedBlockPrinting" type="Boolean" value="True" />
<prop name="useNVBitImage" type="Boolean" value="False" />
</JposEntry>

<JposEntry logicalName="BSC10"> 1
<creation factoryClass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceClass="com.starmicronics.starjavapos.POSPrinterService" />
<vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm" />
<jpos category="POSPrinter" version="1.13" />
<product description="Thermal receipt printer" name="Star Micronics POSPrinter controller" url="www.star-m.jp/eng/index.htm"/>
<prop name="model" type="String" value="BSC10" /> 2
<prop name="portName" type="String" value="usbprn:Star BSC10" />
<prop name="portSettings" type="String" value="BSC10" />
<prop name="ioTimeoutMills" type="Integer" value="5000" />
<prop name="emulation" type="String" value="ESC/POS" />
<prop name="doCheckedBlockPrinting" type="Boolean" value="True" />
<prop name="useNVBitImage" type="Boolean" value="False" />
</JposEntry>
```

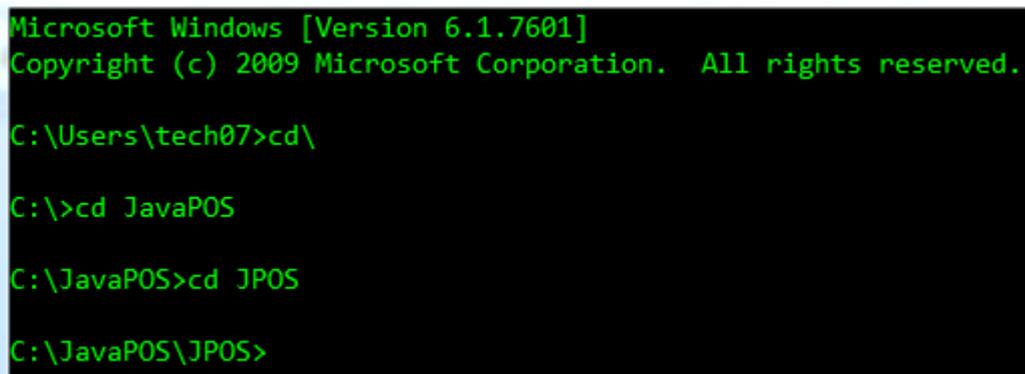
6. Back into folder C:\JavaPOS\JPOS again and right click “StarReceiptTest.java” and click “Edit”



7. Change “default” to “BSC10” [No.1] and save file

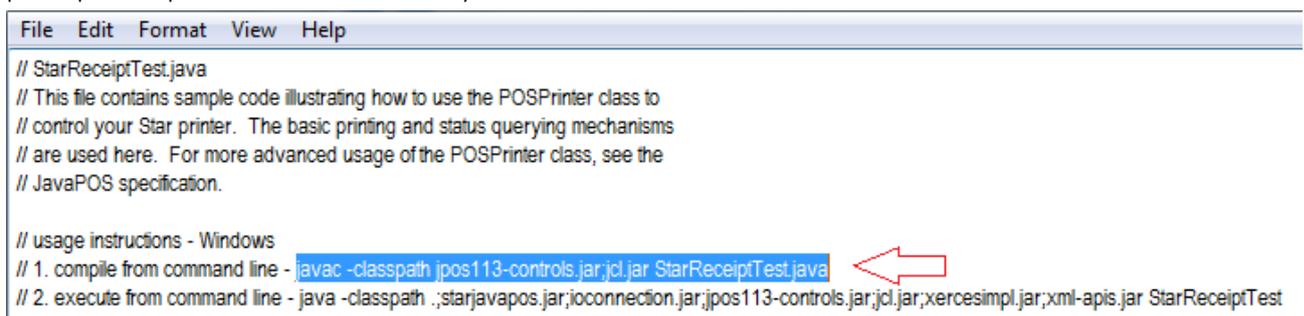
```
try {  
    // register for asynchronous OutputCompleteEvent notification  
    printer.addOutputCompleteListener(this);  
  
    // register for asynchronous StatusUpdateEvent notification  
    printer.addStatusUpdateListener(this);  
  
    // register for asynchronous ErrorEvent notification  
    printer.addErrorListener(this);  
  
    // open the printer object according to the entry names defined in jpos.xml  
    printer.open("BSC10"); 1  
  
    // claim exclusive usage of the printer object  
    printer.claim(1);  
  
    // enable the device for input and output  
    printer.setDeviceEnabled(true);  
  
    printer.setAsyncMode(true);  
  
    // set map mode to metric - all dimensions specified in 1/100mm units  
    printer.setMapMode(POSPrinterConst.PTR_MM_METRIC); // unit = 1/100 mm - i.e. 1 cm = 10 mm = 10 * 100 units
```

8. Open command prompt by typing “cmd” in search box of the windows and access Disk C:\JavaPOS\JPOS by command prompt, as following photo below



```
Microsoft Windows [Version 6.1.7601]  
Copyright (c) 2009 Microsoft Corporation. All rights reserved.  
  
C:\Users\tech07>cd\  
  
C:\>cd JavaPOS  
  
C:\JavaPOS>cd JPOS  
  
C:\JavaPOS\JPOS>
```

9. Open StarReceiptTest.java again, right click “StarReceiptTest.java” and click “Edit” then copy “javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java” and paste in command prompt and press “Enter” at the keyboard



```
File Edit Format View Help  
// StarReceiptTest.java  
// This file contains sample code illustrating how to use the POSPrinter class to  
// control your Star printer. The basic printing and status querying mechanisms  
// are used here. For more advanced usage of the POSPrinter class, see the  
// JavaPOS specification.  
  
// usage instructions - Windows  
// 1. compile from command line - javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java  
// 2. execute from command line - java -classpath .;starjavapos.jar;jocconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarReceiptTest
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\tech07>cd\

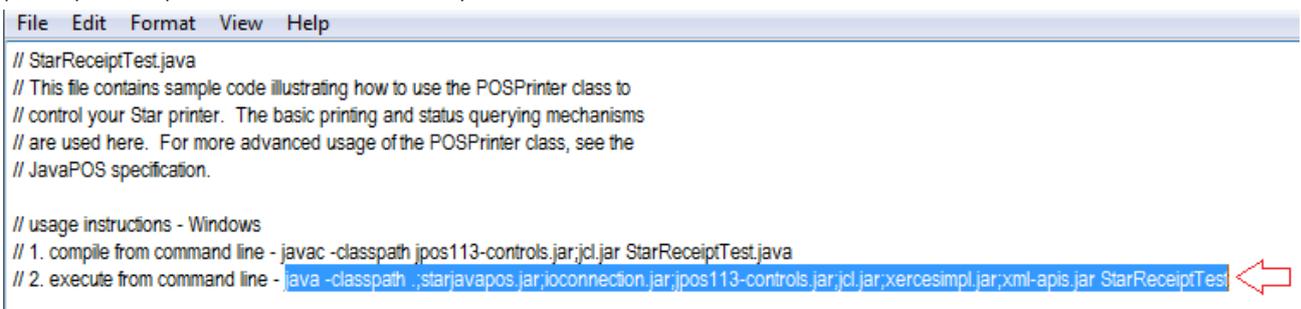
C:\>cd JavaPOS

C:\JavaPOS>cd JPOS

C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java

C:\JavaPOS\JPOS>
```

10. Open StarReceiptTest.java again, right click "StarReceiptTest.java" and click "Edit" then copy "java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarReceiptTest" and paste in command prompt and press "Enter" at the keyboard



```
File Edit Format View Help
// StarReceiptTest.java
// This file contains sample code illustrating how to use the POSPrinter class to
// control your Star printer. The basic printing and status querying mechanisms
// are used here. For more advanced usage of the POSPrinter class, see the
// JavaPOS specification.

// usage instructions - Windows
// 1. compile from command line - javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java
// 2. execute from command line - java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarReceiptTest
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\tech07>cd\

C:\>cd JavaPOS

C:\JavaPOS>cd JPOS

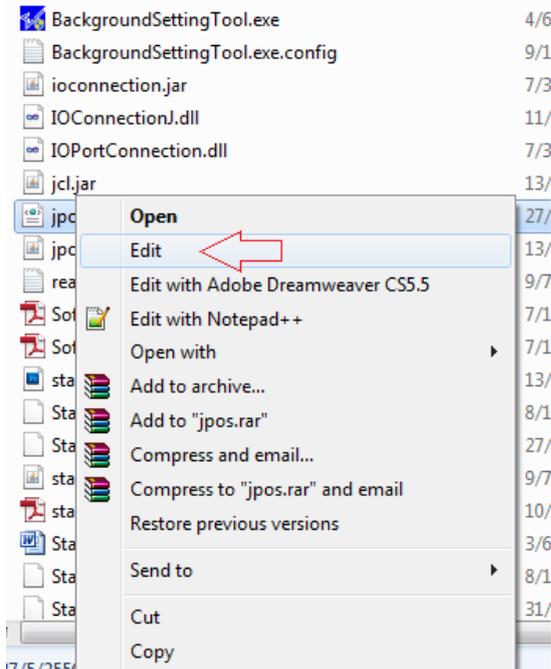
C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java

C:\JavaPOS\JPOS>java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarReceiptTest
Async transaction print submitted: time = 1667899698347 output id = 1
OutputCompleteEvent received: time = 1667899701670 output id = 1
StarReceiptTest finished.

C:\JavaPOS\JPOS>
```

11. After entering in command prompt, printer will be printing sample receipt and status will be finished

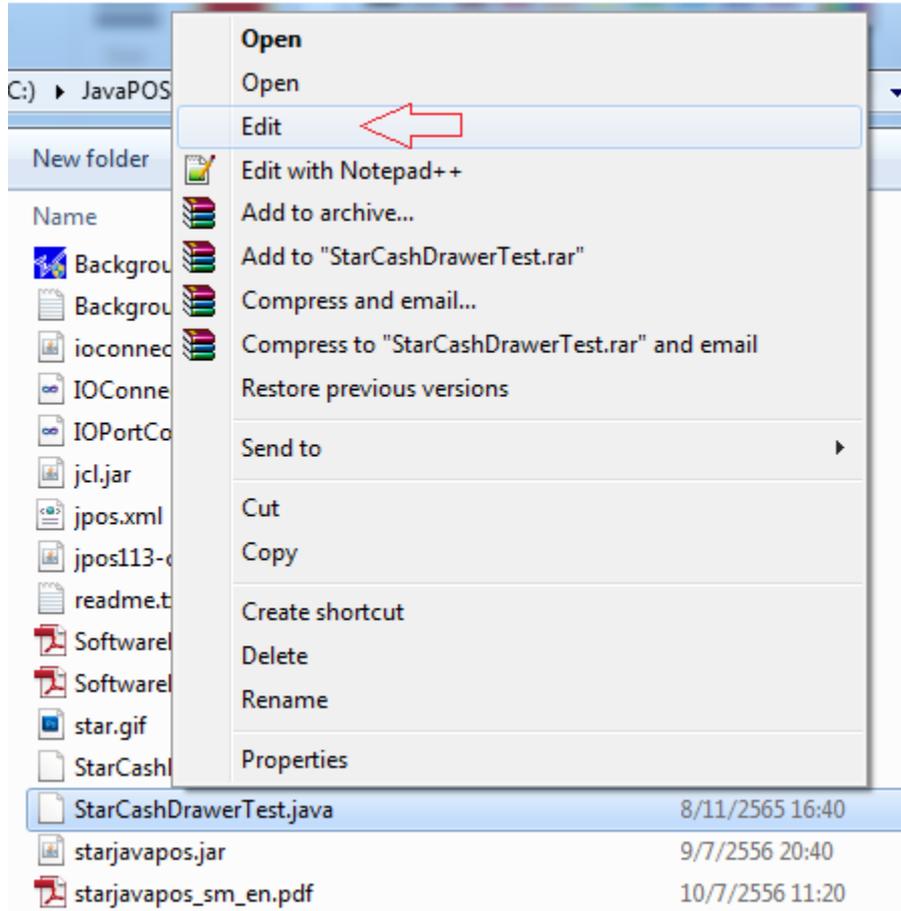
12. Back to folder C:\JavaPOS\JPOS then right click at “jpos.xml” file and select “Edit” again



13. Change “CashDrawer_windows_usb_printer_class” to “BSC10” [No.1] and fill in “BSC10” at the model [No.2] and save file

```
<JposEntry logicalName="CashDrawer_windows_usb_printer_class"> 1
  <creation factoryClass="com.starmicronics.starjavapos.ServiceInstanceFactory" serviceClass="com.starmicronics.starjavapos.CashDrawerService" />
  <vendor name="Star Micronics" url="www.star-m.jp/eng/index.htm" />
  <jpos category="CashDrawer" version="1.13"/>
  <product description="Printer controlled cash drawer" name="Star Micronics cash drawer controller" url="www.star-m.jp/eng/index.htm"/>
  <prop name="portName" type="String" value="usbprn:Star BSC10" />
  <prop name="portSettings" type="String" value="" /> 2
  <prop name="ioTimeoutMillis" type="Integer" value="5000" />
  <prop name="controlPrimaryDrawer" type="Boolean" value="True" />
  <prop name="firePulseWidth" type="Long" value="200" />
  <prop name="sleepPulseWidth" type="Long" value="200" />
  <prop name="capStatus" type="Boolean" value="True" />
  <prop name="emulation" type="String" value="ESC/POS" />
  <prop name="signalLevelHighWhenDrawerOpen" type="Boolean" value="True" />
</JposEntry>
```

14. Back into folder C:\JavaPOS\JPOS again and right click “StarCashDrawerTest.java” and click “Edit”



15. Change “default” to “BSC10” [No.1] and save file

```
try {  
    cashDrawer.addStatusUpdateListener(this);  
  
    // open the cashDrawer object according to the entry names defined in jpos.xml  
    cashDrawer.open("BSC10"); 1  
  
    // claim exclusive usage of the cashDrawer object  
    cashDrawer.claim(1);  
  
    // enable the device for input and output  
    cashDrawer.setDeviceEnabled(true);  
  
    // check if the drawer is currently opened  
    // if this check returns true when the drawer is ACTUALLY CLOSED,  
    // set the drawerClosedOnSignalLow property of this device's entry  
    // in the jpos.xml file to true  
    boolean drawerOpenedStatus = cashDrawer.getDrawerOpened();  
    if (drawerOpenedStatus == true) {  
        System.out.println("cashDrawer.getDrawerOpened() == true");  
    } else {  
        System.out.println("cashDrawer.getDrawerOpened() == false");  
    }  
}
```

16. Run command prompt again and access Disk C:\JavaPOS\JPOS by command prompt, as following photo below

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

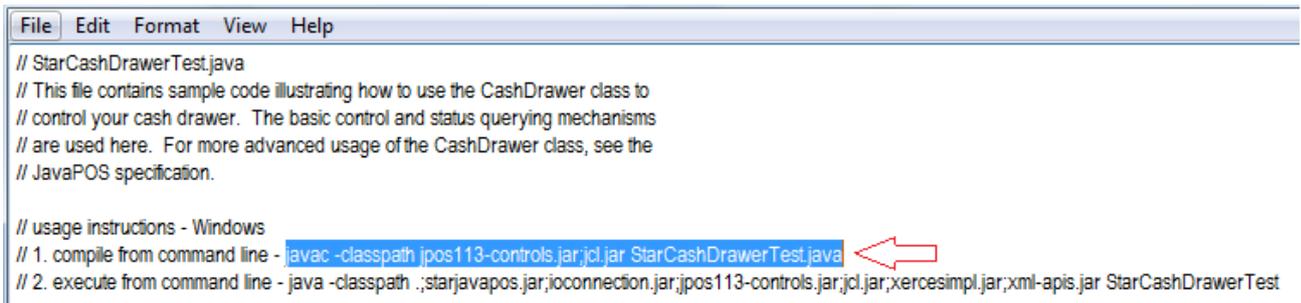
C:\Users\tech07>cd\

C:\>cd JavaPOS

C:\JavaPOS>cd JPOS

C:\JavaPOS\JPOS>
```

17. Open StarCashDrawerTest.java again, right click “StarCashDrawerTest.java” and click “Edit” then copy “javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest.java” and paste in command prompt and press “Enter” at the keyboard



```
File Edit Format View Help
// StarCashDrawerTest.java
// This file contains sample code illustrating how to use the CashDrawer class to
// control your cash drawer. The basic control and status querying mechanisms
// are used here. For more advanced usage of the CashDrawer class, see the
// JavaPOS specification.

// usage instructions - Windows
// 1. compile from command line - javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest.java
// 2. execute from command line - java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest
```

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

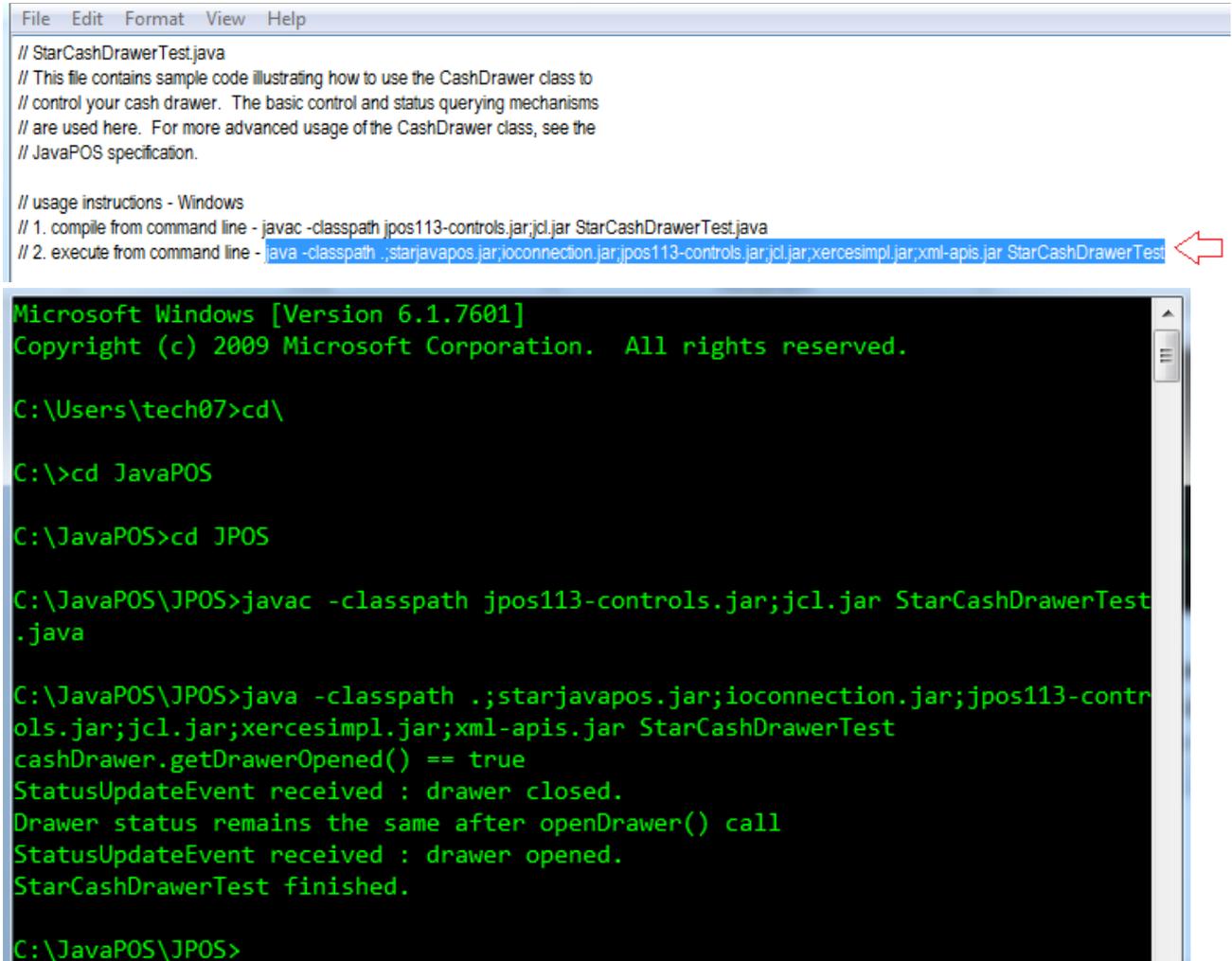
C:\Users\tech07>cd\

C:\>cd JavaPOS

C:\JavaPOS>cd JPOS

C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest
.java
```

18. Open `StarReceiptTest.java` again, right click "`StarReceiptTest.java`" and click "Edit" then copy "`java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest`" and paste in command prompt and press "Enter" at the keyboard



```
File Edit Format View Help
// StarCashDrawerTest.java
// This file contains sample code illustrating how to use the CashDrawer class to
// control your cash drawer. The basic control and status querying mechanisms
// are used here. For more advanced usage of the CashDrawer class, see the
// JavaPOS specification.

// usage instructions - Windows
// 1. compile from command line - javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest.java
// 2. execute from command line - java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-controls.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\tech07>cd\

C:\>cd JavaPOS

C:\JavaPOS>cd JPOS

C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarCashDrawerTest
.java

C:\JavaPOS\JPOS>java -classpath .;starjavapos.jar;ioconnection.jar;jpos113-contr
ols.jar;jcl.jar;xercesimpl.jar;xml-apis.jar StarCashDrawerTest
cashDrawer.getDrawerOpened() == true
StatusUpdateEvent received : drawer closed.
Drawer status remains the same after openDrawer() call
StatusUpdateEvent received : drawer opened.
StarCashDrawerTest finished.

C:\JavaPOS\JPOS>
```

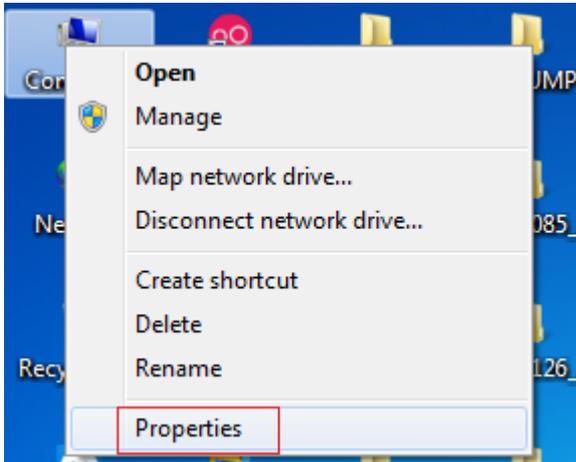
19. After entering in command prompt, cash drawer will be kick out and status will be finished

How to solve JavaPOS Error Printing [Windows 7]

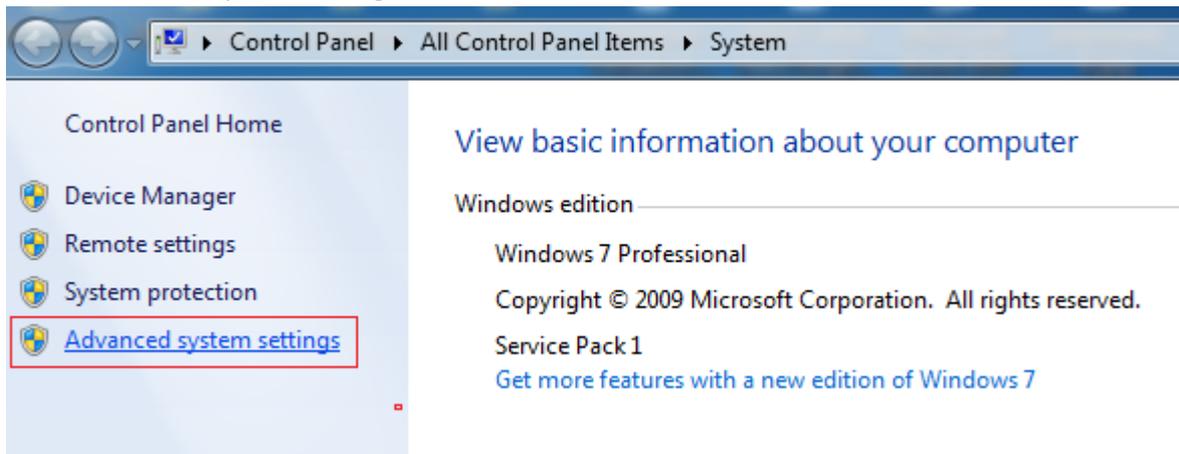
1. When you test JavaPOS and receive this kind of error “javac is not recognized as an internal or external command, operable program or batch file”

```
C:\Users\User>cd\  
  
C:\>cd JavaPOS  
  
C:\JavaPOS>cd JPOS  
  
C:\JavaPOS\JPOS>javac -classpath jpos113-controls.jar;jcl.jar StarReceiptTest.java  
'javac' is not recognized as an internal or external command,  
operable program or batch file.  
  
C:\JavaPOS\JPOS>
```

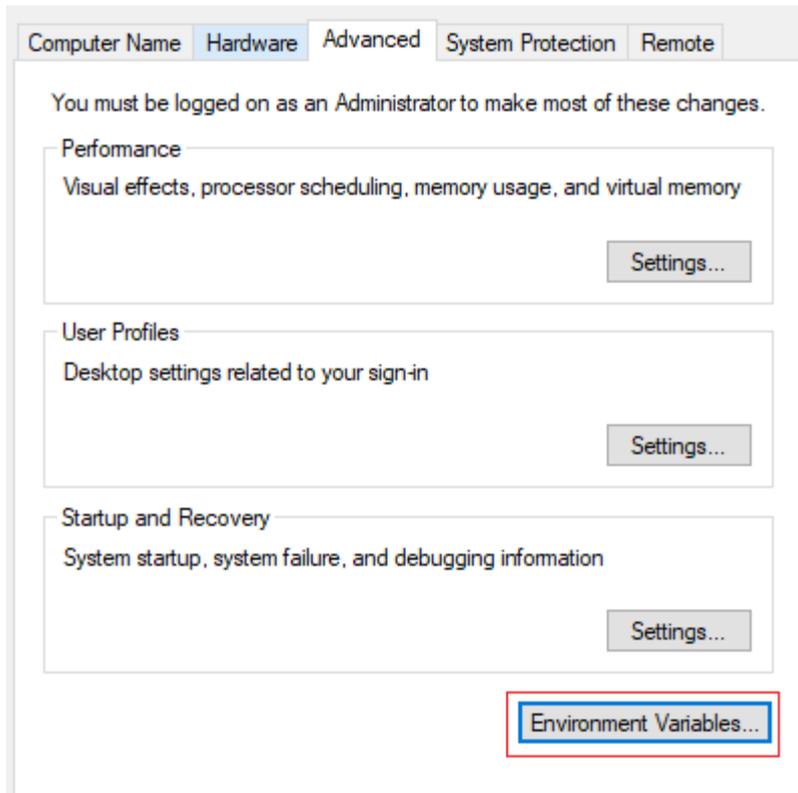
2. Right click on “My Computer” and Select “Properties”



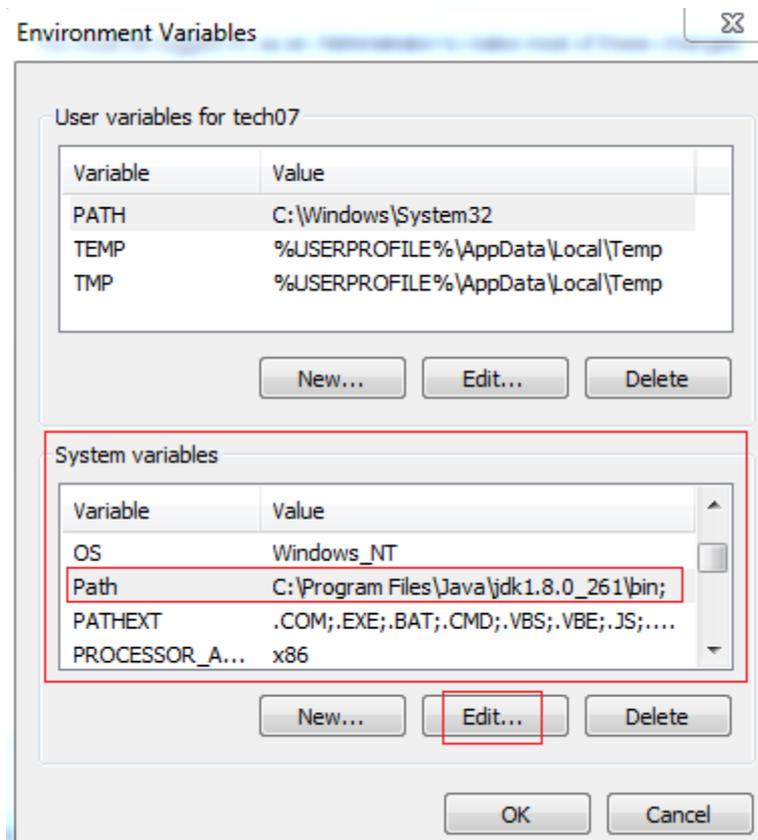
3. Select “Advance System Setting”



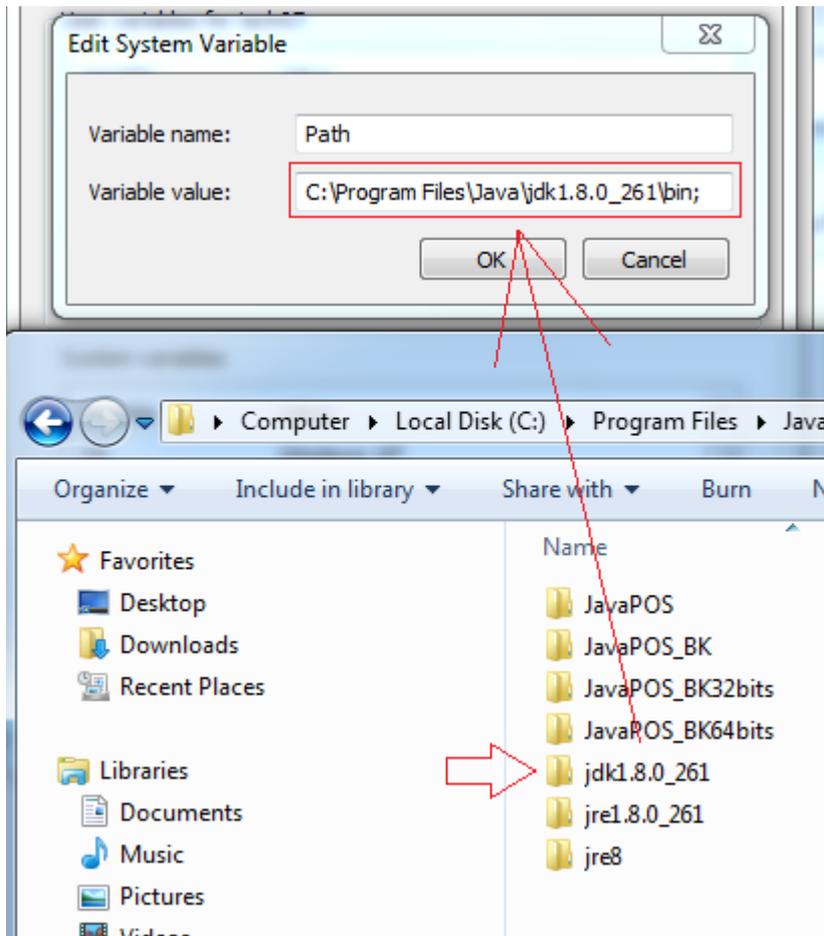
4. Select “Advance” Tab and Select “Environment Variables”



5. Select “Path” under “System Variables” and Click “Edit” button



- In Variable value editor this at the start of the line “C:\Program Files\Java\jdk1.8.0_261\bin;” [base on latest jdk version on your PC]



- Click “OK” then “OK” again
- Restart command prompt otherwise it won't see the change to the path variable and test again.