

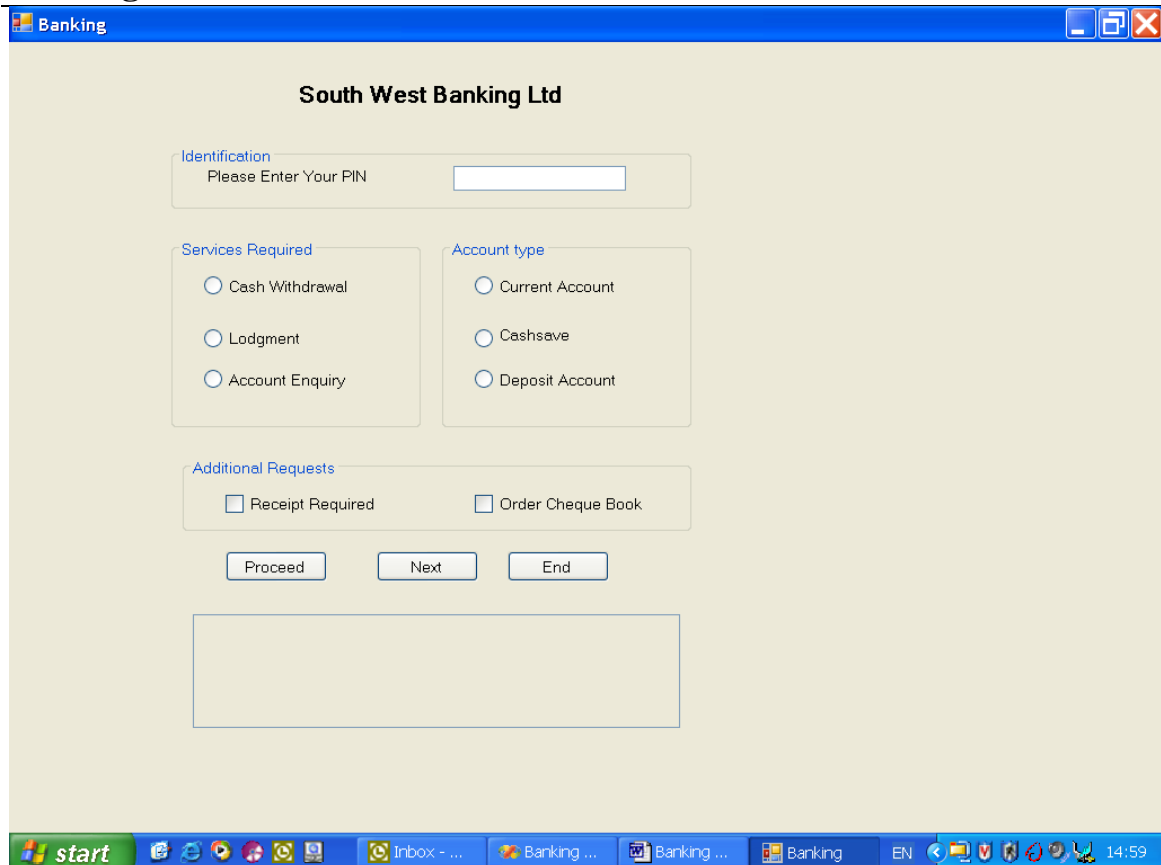
Attached is a form representing an on-line atm machine for South West Banking. (Figure a) The customer keys in the PIN number and then selects a service. Next the account type is selected. In addition, the customer may request a receipt and/or 'order a cheque book'. The label at the bottom then displays: the PIN number; the account balance (updated if appropriate); and where relevant messages stating that a 'receipt will be printed' and that a 'cheque book will be posted'.

Write code so that:

- (a) When the Proceed Button is clicked the following calculations take place:
 - i. If a withdrawal is requested an input box is displayed and the amount of the withdrawal keyed in (Figure b). If there is sufficient funds the amount of the withdrawal is then deducted from the account balance and the result label displayed as specified above (Figure c). If there are not sufficient funds, overdraft is permitted only in the case of a Current Account, and then only to a maximum of €200, in all other cases a message box stating "Withdrawal Denied – Insufficient Funds Available" is displayed (Figure f and Figure g).
 - ii. If a lodgment is requested an input box is displayed and the amount of the lodgment keyed in (Figure d). This amount is then added to the account balance and the result label displayed as specified above (Figure e).
 - iii. If an enquiry is requested no calculations take place and the result label is displayed as specified above. (Figure h)
- (b) When the Next button is clicked, the PIN number, result label and all option buttons and radio buttons are cleared ready for the next customer.
- (c) When the End button is clicked the program ends.

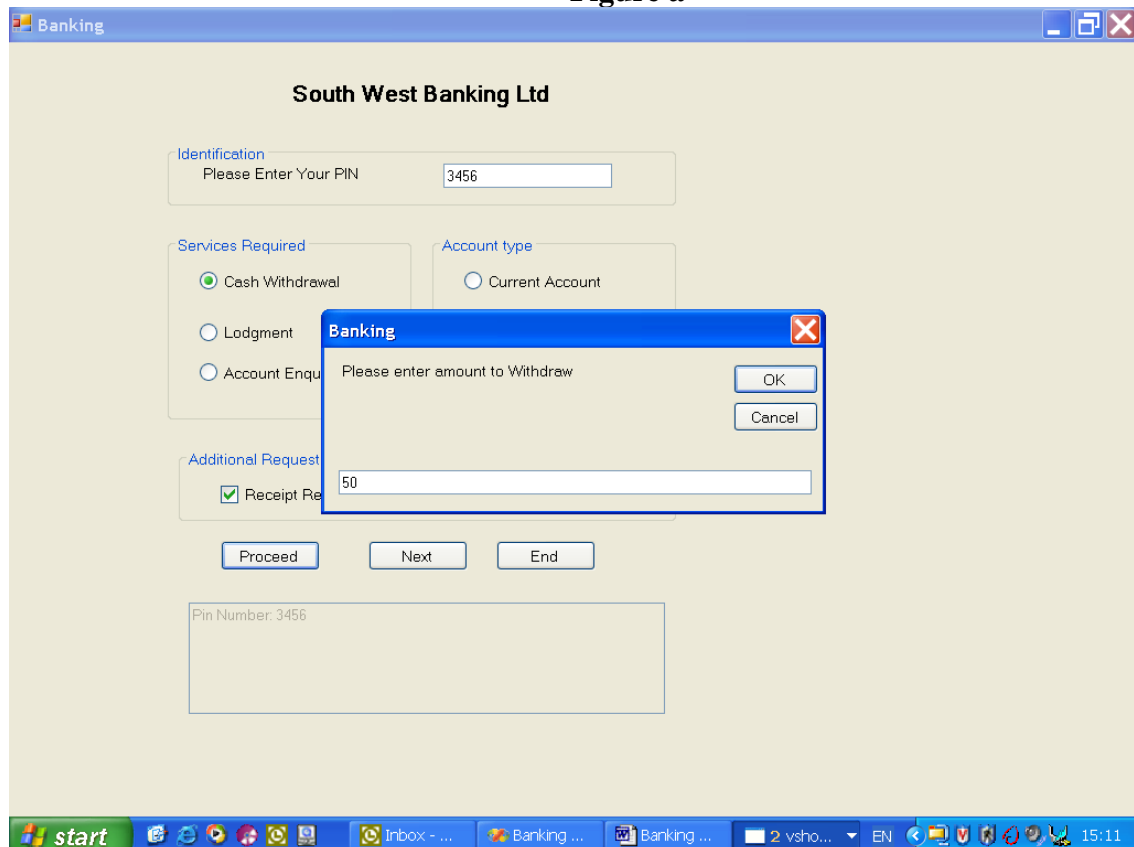
For test purposes declare a field called 'Balance' and store in it a balance of €650. Separate procedures are created for handling 'Withdrawals' and 'Lodgments'.

When the 'Next' Button is clicked the Balance is reset to 650.



The screenshot shows a Windows XP desktop with a 'Banking' application window. The window title is 'Banking'. The main content area is titled 'South West Banking Ltd'. It contains three sections: 'Identification' with a text input field for a PIN; 'Services Required' with radio buttons for 'Cash Withdrawal', 'Lodgment', and 'Account Enquiry'; and 'Account type' with radio buttons for 'Current Account', 'Cashesave', and 'Deposit Account'. Below these is an 'Additional Requests' section with checkboxes for 'Receipt Required' and 'Order Cheque Book'. At the bottom are three buttons: 'Proceed', 'Next', and 'End'. The Windows taskbar at the bottom shows the 'start' button, several application icons, and the system clock displaying '14:59'.

Figure a



This screenshot shows the same 'Banking' application window as Figure a, but with the 'Cash Withdrawal' service selected. A modal dialog box titled 'Banking' is open in the foreground. The dialog has a text input field with the value '50' and two buttons: 'OK' and 'Cancel'. The text 'Please enter amount to Withdraw' is displayed above the input field. In the background, the 'Proceed' button is highlighted. The Windows taskbar at the bottom shows the system clock displaying '15:11'.

Figure b

The screenshot shows a Windows XP desktop with a taskbar containing icons for start, Internet Explorer, and several instances of the 'Banking' application. The active window is titled 'Banking' and displays the 'South West Banking Ltd' interface. The interface has a light beige background and a blue title bar. It contains several sections: 'Identification' with a text box for 'Please Enter Your PIN' containing '3456'; 'Services Required' with radio buttons for 'Cash Withdrawal' (selected), 'Lodgment', and 'Account Enquiry'; 'Account type' with radio buttons for 'Current Account', 'Cashsave' (selected), and 'Deposit Account'; 'Additional Requests' with checkboxes for 'Receipt Required' (checked) and 'Order Cheque Book'; and three buttons: 'Proceed', 'Next', and 'End'. At the bottom, a text box displays 'Pin Number: 3456', 'Withdrawal', 'Balance = €600.00', and 'Receipt will be printed'.

Figure c

This screenshot shows the same 'Banking' application window as Figure c, but with a modal dialog box open. The dialog box is titled 'Banking' and has a blue title bar. It contains a text box with the label 'Enter amount to be lodged' and the value '250'. There are 'OK' and 'Cancel' buttons at the bottom right of the dialog. In the background, the 'Services Required' section now has 'Lodgment' selected instead of 'Cash Withdrawal'. The 'Pin Number: 3456' text box at the bottom of the main window is still visible.

Figure d

The screenshot shows a window titled "Banking" with a header "South West Banking Ltd". The interface is divided into several sections:

- Identification:** A label "Please Enter Your PIN" followed by a text input field containing "3456".
- Services Required:** Three radio buttons: "Cash Withdrawal" (unselected), "Lodgment" (selected), and "Account Enquiry" (unselected).
- Account type:** Three radio buttons: "Current Account" (selected), "Cashsave" (unselected), and "Deposit Account" (unselected).
- Additional Requests:** Two checkboxes: "Receipt Required" (checked) and "Order Cheque Book" (checked).
- Buttons:** "Proceed", "Next", and "End".
- Summary:** A box containing the text: "Pin Number: 3456", "Lodgement", "Balance = €900.00", "Receipt will be printed", and "Cheque book will be posted".

The Windows taskbar at the bottom shows the "start" button, several application icons, and a system tray with the time "15:13".

Figure e

This screenshot shows the same "Banking" window as Figure e, but with a modal dialog box open. The dialog box is titled "Banking" and contains the following elements:

- Text:** "Please enter amount to Withdraw".
- Input Field:** A text input field containing the value "950".
- Buttons:** "OK" and "Cancel".

The background window is partially obscured by the dialog box. The "Services Required" section now shows "Cash Withdrawal" as the selected option. The "Additional Request" section shows "Receipt Required" as unchecked. The "Pin Number" in the summary box is now "3422". The Windows taskbar at the bottom shows the time "15:14".

Figure f

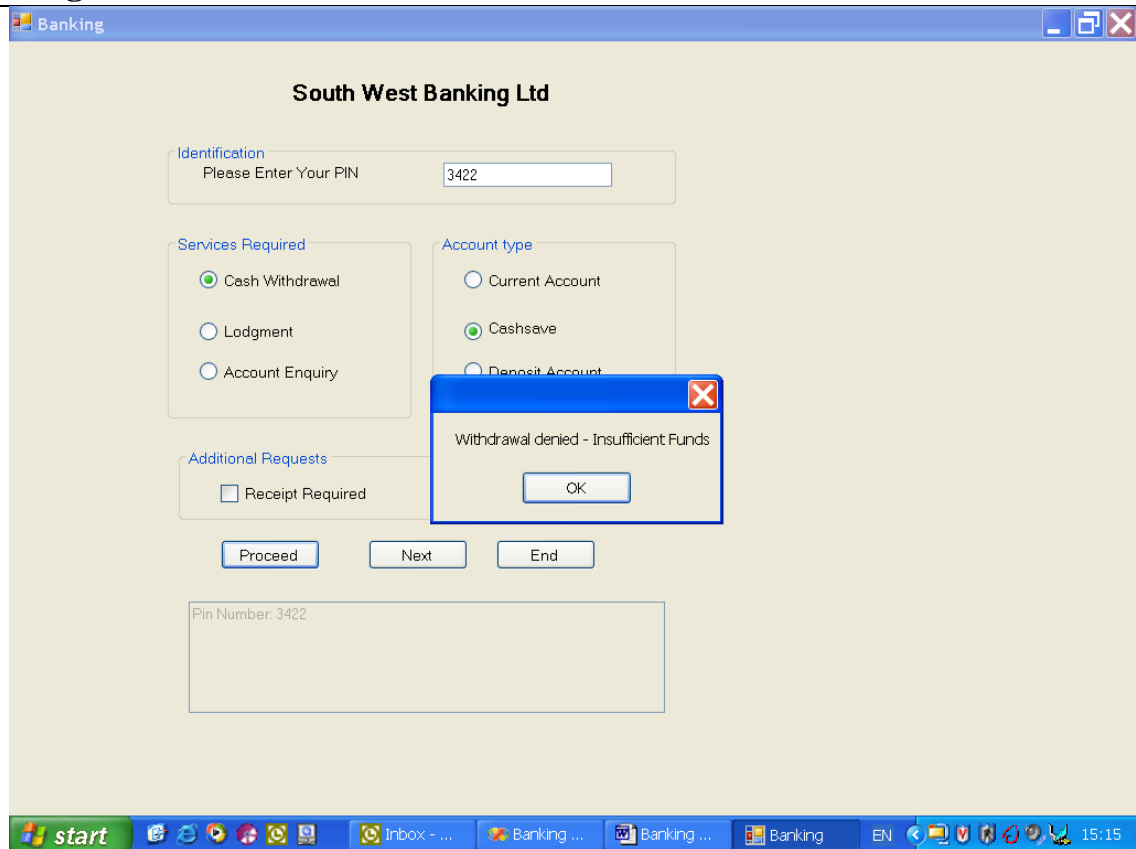


Figure g

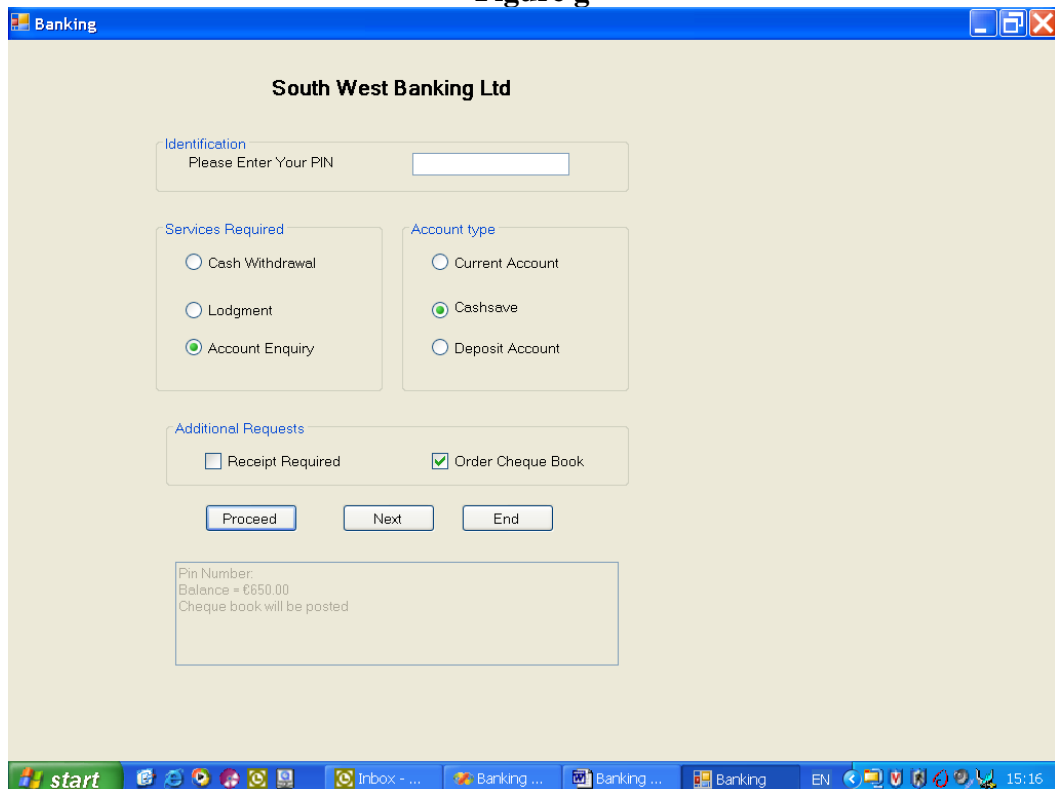


Figure h