The LYIT bank offers the following options for customers:

1. View Balance
2. Make a deposit
3. Make a withdrawal
4. View number of transactions made
5. See how much a loan would cost you
6. Exit

Write a java program to allow a user to manage their LYIT Bank Account via this menu. The program should allow the user to repeatedly choose options from the menu until they choose to exit. Choosing option 1 should allow the customer to see their bank balance. Option 2 should allow the user to deposit an amount of money to their account. Option 3 should allow the user to withdraw an amount from their account, provided that they have that amount in their account.   Option 4 should allow the user to see the number of deposits and withdrawals they have made from their account.

Option 5 should allow the user to see details of a potential loan. On choosing this option, the user should be asked for a loan amount, and a number of months for loan payback. The program should then work out and display the interest due on the loan (a fixed interest of 5% of the loan amount, regardless of how long the loan is for), and should display a schedule of loan repayments.

Option 6 should allow the user to exit the program.

See Page 2 for sample output.

Sample Program Output:

```
Welcome to LYIT Bank
1. View Balance
2. Make a deposit
3. Make a withdrawal
4. View number of transactions made
5. See how much a loan would cost you
6. Exit

Choose an option: 2
How much do you want to deposit? 100

Choose an option: 1
Your balance is 100.0

Choose an option: 3
How much do you want to withdraw? 200
Insufficient funds - today you can withdraw up to 100.0

Choose an option: 3
How much do you want to withdraw? 20

Choose an option: 1
Your balance is 80.0
Today you may withdraw up to 80.0

Choose an option: 4
You have made 1 deposit and 1 withdrawal on your account

Choose an option: 5
Enter loan amount: 1200
Enter number of months to pay it back: 6
Loan amount: 1200.0
Total interest: 60.0
Loan Payment Schedule:
Month Payment  Balance
1     210.0    1050.0
2     210.0    840.0
3     210.0    630.0
4     210.0    420.0
5     210.0    210.0
6     210.0    0.0

Choose an option: 6
You have chosen Exit.  Have a nice day!
```