Bank Account – 100 min

- Create a Python class called BankAccount which represents a bank account, having these attributes: ID, account number, owner name and balance. – 10 min
- 2. Create a constructor with needed parameters and data types. **20 min**
- 3. Create a deposit () method which manages the deposit actions. **20 min**
- 4. Create a Withdraw () method which manages withdrawals actions. **20 min**
- 5. Create a bankFees() method to apply the bank fees with a percentage of 1% of every withdraw operation. **20** min
- Create a display () method to display account details. –
 10 min

Credit Bank Account - 120 min

- 7. Let's program CreditBankAccount class which will have same attributes of BankAccount and add credit_balance credit_limit and interest_percent. **20 min**
- 8. Create a constructor with parameters for CreditBankAccount. **20 min**
- 9. Rebuild deposit () and withdrawal() so we can do these operation to credit account as well! (Do we need to rename these functions? Why?) **40 min**
- Create an interest_cost() method that calculates the interest on the credit being allowed! 30 min

11. Upgrade display to display all info om Credit and debit accounts. – **10 min**

Bankcards: - 160 min

This bank would like to issue bankcards, so every client has possibility to order one card and connect it to his both credit and debit accounts simultaneously.

- 12. Let's program Bankcard class which will have attributes: card_number(16 digits), random_pin_code_4digits, card_holder: name and last name, random_security_code_3digits, valid_month, valid_year, connected_bank_account, connected_credit_bank_account, fixed withdraw_fees as 1% of the amount when withdraw from debit account and 1.5% from credit accounts, no fees for setting funds into accounts. 20 min
- 13. Program with python the init method. 20 min
- 14. Program methode print_card() that print the cardinfo ps. none of private info should be printed. 20min

Now let's program the next cases:

an amount of 10_000sek, and client has in his debit bank account 14_000sek and in credit one 19_000sek. Write python method withdraw_from_debit_or_credit () into Bankcard class to manage this case that we can ask for **both options**, deduct the right fees, and update

the right amount into the right bank account. - 30 min

- 16. **Case 2**: At ATM machine the client likes to withdraw an amount of 10_000sek, and client has in his debit bank account 4_000sek and in credit one 19_000sek. Write python method withdraw_from_credit() into Bankcard class to manage this case, describe the situation to the user with a message as: "you don't have sufficient funds in your debit account so we withdraw from credit", deduct the right fees, and update the right amount into the right bank account. **30 min**
- 17. **Case 3**: At ATM machine the client likes to withdraw an amount of 10_000sek, and client has in his debit bank account 4_000sek and in credit one 9_000sek. Write python method withdraw_from_both () into Bankcard class to manage this case, deduct the right fees, and update the right amount into the right bank account. **40 min**