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| Task. No.: | 6 | Points: | 10 | Exercise 6 |

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| Objectives: The aim of this exercise is to create a *module* with several classes. |

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| Description: Consider the *Account* related classes (Exercise 3). We want to extend the *Account* class by providing *DepositAccount*, *CurrentAccount* and *InvestmentAccount* subclasses. |

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| Step | Action |
| 1 | Create *CurrentAccount* class with an overdraft limit. |
| 2 | Create *DepositAccount* class with an interest rate. |
| 3 | Create *InvestmentAccount* class with an investment type attribute (safe or high risk). |
| 4 | Move your *Account*, *CurrentAccount*, *DepositAccount* and *BalanceError* classes into a separate module (file) called *accounts*. Save this file into a new Python package called *fintech*. |
| 5 | Separate out the test application from this module so that you can import the classes from the package. |
| 6 | Your test application should look like this.  import fintech.accounts as accounts accl = accounts.CurrentAccount('123', 'John', 10.05, 100.0) acc2 = accounts.DepositAccount('345', 'John', 23.55, 0.5) acc3 = accounts.InvestmentAccount('567', 'Phoebe', 12.45, 'high risk')  print(accl) print(acc2) print(acc3)  accl.deposit(23.45) accl.withdraw(12.33) print('balance:', accl.balance)  print('Number of Account instances created:', accounts.Account.instance_count)  try: print('balance:', accl.balance) accl.withdraw(300.00) print('balance:', accl.balance) except accounts.BalanceError as e: print('Handling Exception') print(e) |

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