

Week 7: Backend Assignment

Assessment

Assignment (Week 7)

- 1) The management of LearnMore University is planning to automate the University management system. Therefore, Steve Wilkinson, the programmer, has decided to create a Java program that accepts the student details, such as the first name, last name, age, courses enrolled, and student ID. In addition, he also needs to accept the employee details, such as first name, last name, age, salary, department name, designation, and employee ID. Steve must ensure the reusability of code. The program must offer a choice to accept either the student's or the employee's details. Help Steve to develop the program.

Note: Make use of inheritance in this problem.

- 2) Define a FixedAccount class containing the method, calculateInterest(), which calculates the interest on the balance for a fixed account. In addition, extend the FixedAccount class and override the calculateInterest() method to calculate the interest for the savings account. The interest rates for the fixed and savings accounts are different.

NOTE: Submission should be done via GitHub by sharing a PR link with the mentor/Facilitator via Slack. The process includes:

- i. Create a repo on GitHub***
 - ii. Clone the repo to your local machine***
 - iii. Create a development branch (Using git checkout -b development)***
 - iv. Set up your project files and do your work and always remember to add and commit your changes***
 - v. When done push your work using (git push origin development).***
 - vi. Go back to your GitHub refresh your created repo and click on the green compare changes icon at the top to create a pull request.***
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vii. When done, copy the link to the created PR from your browser address tab and share it with your mentor/Facilitator and also fill out [this form](#) and add the same PR (Pull Request) link you shared with the facilitator in the Github Link space provided.

NOTE: This Assignment submission deadline is slated for Sunday 12th August, 2023 at 11:59PM WAT, after the deadline any submission score will be graded by half.