

While working on these Java tasks, I learned a lot about both programming and using Git. For the first task, setting up the project and pushing it to GitHub, I ran into an error that said "failed to push some refs." I searched for different ways to fix it, including pulling changes from GitHub first, trying a git merge, and finally using 'git push --force', which worked. This helped me understand more about how Git works and how to troubleshoot common issues.

For the rest of the Java tasks, I focused on practicing basic programming concepts like arrays, loops, methods, and object-oriented programming. I used W3Schools for extra help understanding how some methods work and how to apply them in my code. One of the more challenging parts was working with logic and calculations. To test my code, I used different 'System.out.println()' statements to trace the program step by step and figure out if something was going wrong. I also tried writing parts of the code in more than one way to compare which solution worked better. One thing I would like to improve is making my programs more dynamic by using user input with Scanner instead of hardcoding values. Overall, these tasks helped me understand Java better and gain more confidence in writing and testing code.

Notes

Setup workspace

① Error faced:
○ Failed to push some refs → Solution:
○ Git push-f- u origin main

② File name -java
Java javaskills → run the main code

Tasks

User information

Variables

private string name } same for the rest (age, email)

To create getter and setter methods

① public setName (String name) {
this.name = name;
}

② public getName () {
return name;
}

} learn how to gather user information name, age, email and display their information .

Create different users

Name user1 = new Name (value)

o- class }

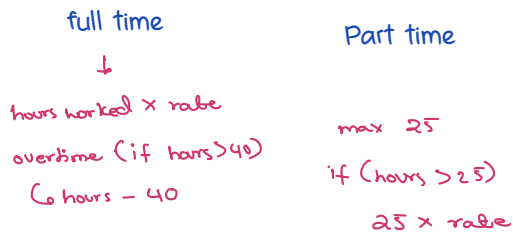
Employee payroll

Types: full-time, part- time, contractor, intern

Switch (employee type) {
Case "part-time":
}

} ← navigable between different types

To calculate weekly pay



Contractor

↓
hours x rate

Intern

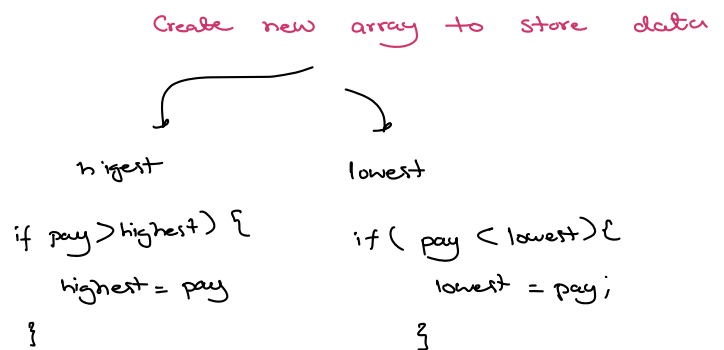
max 20
if (hours > 20)
20 x rate
20% discount

For tax deduction

gross Pay x percentage of tax .
if (health insurance) {
 amount -= 50;
}

process payroll

Calculate the pay of each employee by calling the weekly pay method



- ① start with first pay in the array
- ② loop to go through the array