CANNON FODDER GROUP 8 PROJECT REPORT

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In this project, our goal is making a slash game using object-oriented programming. In this project we have 23 classes and 1 interface class. Our first class was "Item". Iteam has private data member as name, weight and value; attributes are getName, setName, getWeight, setWeight, getValue, setValue and printInfo. It was superclass of Clothes and Weapons.

Clothes has one extra attributes and it is protection and and it has an extra private data member as protection. Clothes has 3 subclass's. They are HardArmor, MediumArmor and LightArmor.

Weapons has one extra private data member and it is damage and it has one extra attributes called damage. Weapons has 3 subclasses. They are Shileds, Swords and Wands. In every subclass's of Weapons we have one extra data member and it is attack. And in every subclass we have an attributes that is called firstAttack.

Shields has 3 subclass. They are SmallShield, Buckler and TowerShiled. Swords has 3 subclass. They are LongSword, Scimitar and ShortSword. Wands has 2 subclass. They are BoneWands and WoodWands.

This project has an Interface class called InterfaceCharacter. This class has attributes as pick, specialAction, examine, listInventory, wear, attack, unwieldy, wield and calculateDamage.

In this project we have another class that called Characters. This class has implemented from InterfaceCharacter class. Characters private data members are Strength, Vitality, Intelligence, hp, isWielded, inventory, calculateDamage, weapons, clothes, damage1, invSize and level. We have attributes as attack, calculateDamage, wield, unwieldy, wear, pick specialAction, examine, listInventory and printInfo. In addition we have setter and getter methods for every data member. This class has 4 subclass's. They are EnemySoldier, Fighter, Healer and Tanks.

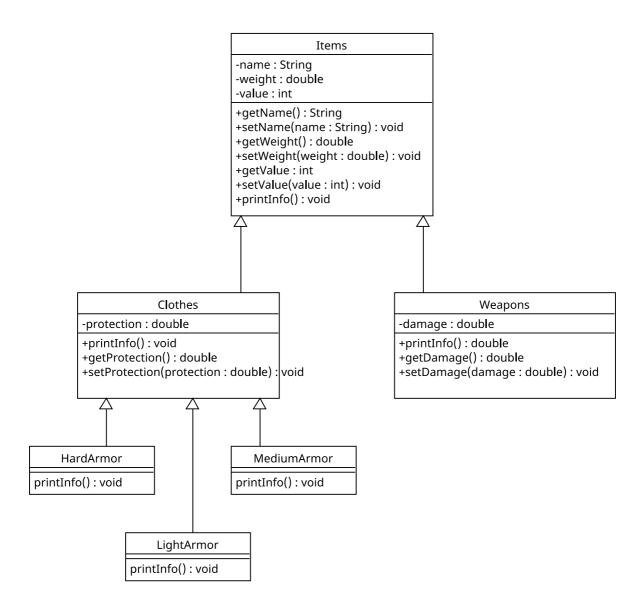
EnemySoldier has a private data member as hp. Fighter has a protected data member as level. Healer has a protected data as level. Tank has a protected data member as level.

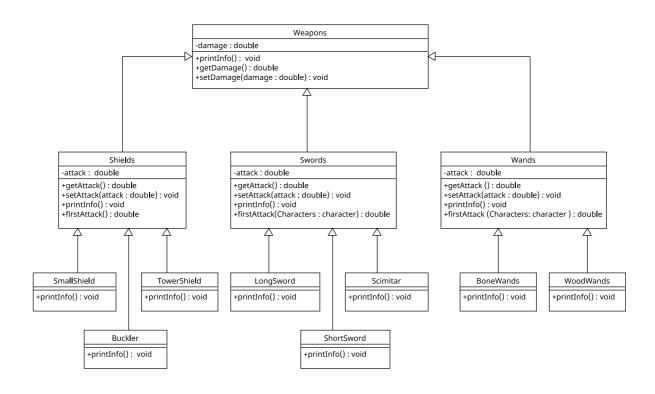
We have Game class which has main method. This project runs at this class. In this class we create our characters as random and for this we use RandomSecure class. We create object from each class. We create ArrayLists for keeping our characters.

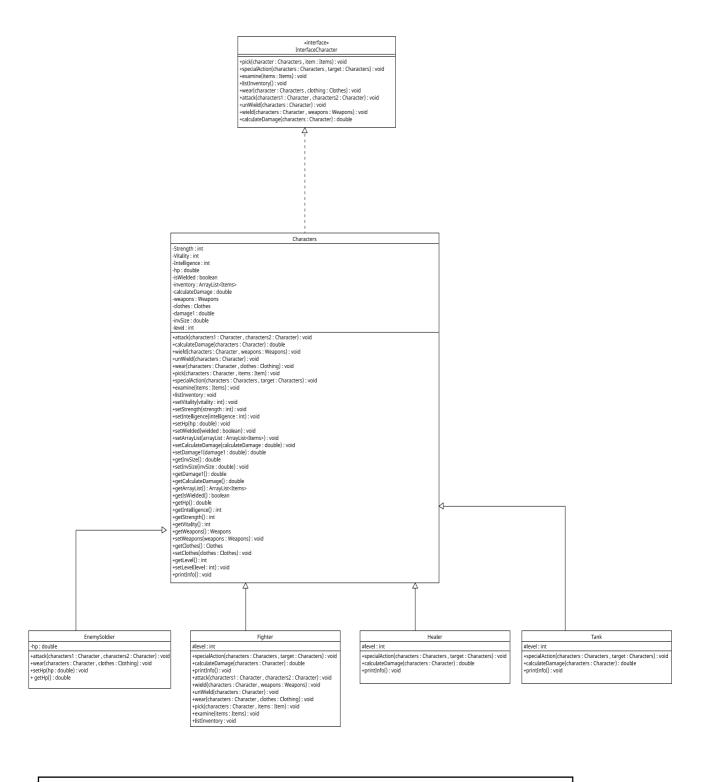
We have option menu in main method. For example, if you choose 1 you would attack to enemy soldier. If you choose 2 you would choose wield and if you choose 3 you would get armor. If you choose 4 you would see inventory. If you choose 5 you would see examine. If you choose 6 you would use special action and you should choose 7 to terminate the program.

In our game if you level would increase your enemies' number will be twice of your level. If all the characters would die than game over.

UML CLASS DIAGRAMS







Game

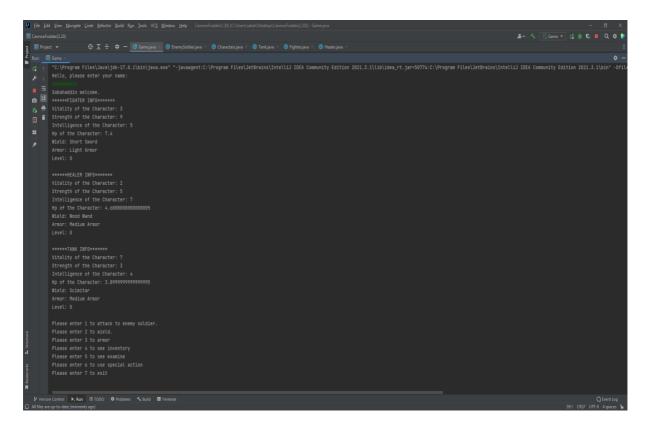
+temp: boolean

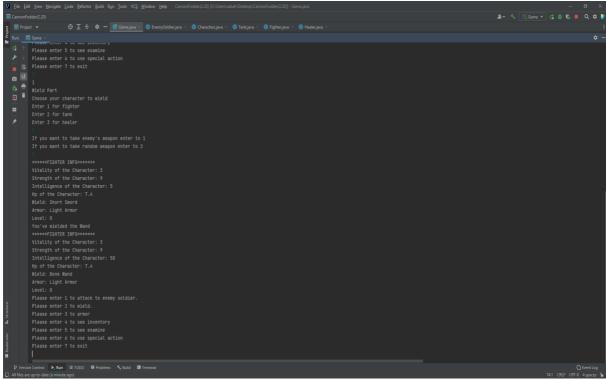
+printMenu(): void

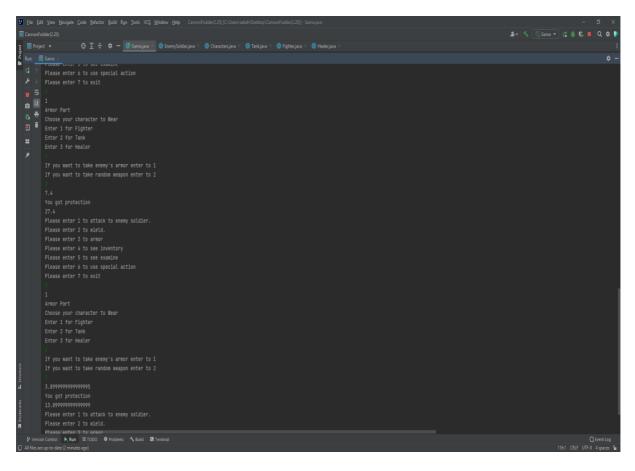
+enemyNumber(characters : Characters , arrayList : ArrayList) : void

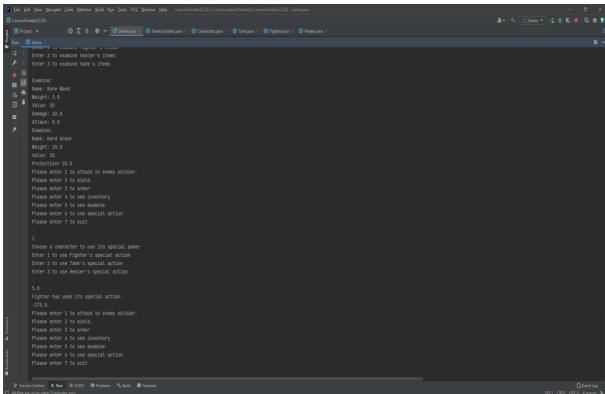
+main(String [] args) : void

SAMPLE OUTPUTS









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The Command Prompt - jun - jun - Cittlerestabalth Desktop (Cannon Fodder (11))

Hicrosoft Windows (Version 18.0.15044.7406)

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Sabahaddin

Intelligence of the Character: 1

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Intelligence of the Character: 1

Intelligence of the Character: 3

Intelligence of the Character: 4

Intelligence of the Character: 4

Strength of the Character: 4

Strength of the Character: 4

Strength of the Character: 3

Intelligence of the Character: 1

Intelligence of the Character: 4

Intelligence of the Character: 6

Intelligence of the Character: 7

Intelligence of the Character: 8

Intelligence of the Character: 9

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