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## JAVA 1 - JAVA FUNDAMENTALS (GR11CPROGA 2019-20)

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### Midterms Set B

**1. Create a menu type program that will act as an ATM machine wherein you will have 3 choices:**

**Withdraw, Deposit, and View Balance. 4<sup>th</sup> choice will be exit. (40pts)**

**\*Be wary of the invalid inputs of some variables and procedures. Prompt an invalid or error message then loop back.**

**Withdraw:**

**Should print insufficient money if the withdrawn money is larger than the balance money.**

**Should only withdraw 200, 300, 500, 1000. You can decide to do it as a menu choice or as a looping back invalid system.**

**Deposit:**

**Will add to the balance money.**

**Should only deposit 500, 1000, 2000, 5000 or 10000 per transaction. Same decision as withdraw, either a menu choice or loop back if invalid.**

**View Balance – displays the balance money.**

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**2. Create a void type with no parameter program that will ask for the user to input a 4-digit number ranging from (1000-9999). Display the backward output of the number. (20pts)**

**Example:**

**Input number: 2354**

**Backward output: 4532**

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**3. Create a return type with two parameters program; base value and exponent. Do an exponentiation process and return the answer. (20pts)**

**Example:**

**Input for base: 4**

**Input for exponent: 2**

**Result: 16**

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**4. Create a return type with no parameter that returns whether the input number is a Prime or a Composite number. (20pts)**

**Example:**

**Enter number: 6**

**6 is a Composite number.**

**Hint: Modulo the number from one up to the number itself. Count all the factors. If factor count is greater than two, that's a composite, otherwise it's a prime.**

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