**Question 1, Assig. 1: UML + generalization (inheritance) relationship Class Diagram**

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| **Class: Phone** |
| Attributes:   * Age (int) * Price (float) |
| Functions:   * Phone() * Phone(int a, float b) * setAge(int a) * setPrice(float b) * getAge() * getPrice() |

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| **Class: IPhone12**  (inherits class IPhone) |
| Attributes:   * Inherits all attributes from class IPhone * AugmentedRealityStatus (bool) |
| Functions:   * Inherits all functions from class IPhone * IPhone12() * setAugmentedRealityStatus(bool x) * getAugmentedRealityStatus() |

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| **Class: IPhone**  (inherits class Phone) |
| Attributes:   * Inherits all attributes from class Phone * AppleID (int) |
| Functions:   * Inherits all functions from class Phone * IPhone() * setAppleID(int x) * getAppleID() |

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Tertiary inherits secondary

Tertiary also inherits base

Secondary inherits base