AP Computer Science A Notebook Kadence Ly

1. Primitive Types (Java)

- (a) int this can represent an integer, meaning a postive or negative number without decimals
- (b) byte this represents the smallest type of integer
- (c) short this represents the second smallest integer, bigger than a byte smaller than an int
- (d) long this represents the biggest type of integer.
- (e) float this represents a number with up to six or seven decimals, every number ends with the letter f
- (f) double this represents a number with up to fifteen decimals
- (g) boolean this will hold a value called true(1)or false(0)
- (h) char this represents a single character, uses a single quotation mark

2. Using Objects

- (a) An object is something that contains attributes / characteristics
- (b) An example of a well known object is an array. An array holds multiple values of the same data types in java
- (c) Another well known oject is a String. A String is NOT a primitive data type. A String is an array of characters a character is a primitive type while a String holds them.
- (d) they aren't primitive types but they are objects
- (e) each object is different from each data type each object has method and varibles

(f) Example: Animal

- i. An animal has the following characteristics: name, haircolor, species, mother, sound, number of legs
- ii. A name is just a varible with type String.
- iii. Haircolor is just a varible with type String
- iv. Mother is just a varible of type Animal