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Week6Meet - 10 pts

Turn in on BBL as soon as complete, but before end of day Friday following the lecture.

Answer these questions as we progress through the meeting.

1. Declare an array of type int that will hold 50 numbers:

Int[] myarray = new int[50];

1. Declare an array of type String that will hold the inner planets:  
   String planets[] = {“Mercury”, “Venus”, “Earth”, “Mars”, “Jupiter”, “Saturn”, “Uranus”, “Neptune”};
2. Print out Earth from the previous array.

System.out.println(planets[2]);

1. What is the error you get when you attempt to access an array element that is outside of the length of the array?

Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 8 out of bounds for length 8

at Scratch.main(Scratch.java:12)

1. Write a method that takes in an array as a parameter and prints each element in the array on its own line:  
   public class Scratch {

public static void main(String args[]) {

String planet[] = { "Mercury", "Venus", "Earth", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune" };

print(planet);

}

private static void print(String[] planet) {

for (int i = 0; i < planet.length; i++) {

System.out.println(planet[i]);

}

}

}

1. Assuming we have a Planet class that encapsulates data on a planet, write a new array declaration for all the planets in our solar system that uses the Planet class:

public class SolarSystem {

private Planet[] allPlanets = new Planet[8];

1. Describe the relationship between variable length parameter lists and arrays.

A method with variable length arguments(Varargs) in Java can have zero or multiple arguments. Variable length arguments are most useful when the number of arguments to be passed to the method is not known beforehand. They also reduce the code as overloaded methods are not required.

Length is a filed in java, it gives the total number of the elements in a Java array. The length of an array is defined after the array was created. Integer[] myArray = {23, 93, 56, 92, 39}; System.out.println(myArray.length); we can use length parameter in loops also like for loop condition.

1. Declare a 2D array representing the seating on a plane. Populate it with typical seat references of row and letter such as 10C or 22A (using a nested loop):

String plane[][] = new String[20][6];

for (int row = 0; row < plane.length; row++) {

for (char col = 'A'; col < 'G'; col++) {

plane[row][col - 'A'] = "" + (row + 1) + col;

}

}

for (String[] row : plane) {

for (String col : row) {

System.out.printf("%s\t", col);

}

System.out.printf("\n");

}

Reflect on your learning and your needs. After this class meeting, what topics do you feel like you learned and what topics do you feel like you need more information on to learn?

Array is good way to use as collection in java as I understand in this lecture how we use array how we declare and use it properly how we access the planet array in solar system. The 2D array is interesting I want to learn more about it in future.