**Q1:** Assume that you are sequentially reading integers from an array. Write a program that generates median of the numbers.

**Solution**:

**import** java.io.\*;

**class** MedianDemo {

**public** **static** **void** main(String[] args) **throws** IOException {

String inpstring = "";

InputStreamReader input = **new** InputStreamReader(System.*in*);

BufferedReader reader = **new** BufferedReader(input);

System.*out*.print("Enter a Number Elements:");

inpstring = reader.readLine();

**long** max = Long.*parseLong*(inpstring);

**long**[] arrElements = **new** **long**[100];

**for** (**int** i = 0; i < max; i++) {

System.*out*.print("Enter [" + (i + 1) + "] Element: ");

inpstring = reader.readLine();

arrElements[i] = Long.*parseLong*(inpstring);

}

//for loop to sort the array

**for** (**int** i = 1; i < max; i++) {

**for** (**int** j = 0; j < max - i; j++) {

**if** (arrElements[j] > arrElements[j + 1]) {

**long** temp = arrElements[j];

arrElements[j] = arrElements[j + 1];

arrElements[j + 1] = temp;

}

}

}

//odd count

**if** ((max % 2) == 1) {

**int** index = (**int**) max / 2;

System.*out*.println("Median: " + arrElements[index]);

}

//evencount

**else** {

**int** index1 = (**int**) max / 2;

**int** index2 = index1 - 1;

**double** value = (arrElements[index1] + arrElements[index2]) / 2.0;

System.*out*.println("Median: " + value);

}

}

}

Q2: Active learning is the DNA of our company. This means that we carve some time out of our busy schedule to learn something proactively. Tell me what technology/skill do you want to learn over the next two years?

Answer:

As I am from CSE background I love programming languages. I would like to explore web development languages like javascript,php,python which will help me to improve a lot as there will be a continuous scope for the web development in future.