Write a program that would sort a list of names in alphabetical order Ascending or Descending, choice get from the user.

CODE:

import java.util.ArrayList;

import java.util.Collections;

import java.util.Scanner;

public class sortAlphabets {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

ArrayList<String> names = new ArrayList<>();

// Get names from the user

System.out.println("Enter names (enter 'done' to finish):");

while (true) {

String name = scanner.nextLine();

if (name.equals("done")) {

break;

}

names.add(name);

}

// Get sorting order from the user

System.out.print("Enter sorting order (A for ascending, D for descending): ");

char order = scanner.next().charAt(0);

// Sort names based on the user's choice

if (order == 'A' || order == 'a') {

Collections.sort(names);

} else if (order == 'D' || order == 'd') {

Collections.sort(names, Collections.reverseOrder());

} else {

System.out.println("Invalid input! Please enter 'A' or 'D'.");

return;

}

// Print the sorted names

System.out.println("Sorted names:");

for (String name : names) {

System.out.println(name);

}

}

}

OUTPUT:

C:\javap>javac sortAlphabets.java

C:\javap>java sortAlphabets

Enter names (enter ‘done’ to finish):

Banana

Carrot

Raddish

Apple

Jack

Done

Enter sorting order (A for ascending, D for descending): A

Sorted names:

Apple

Banana

Carrot

Jack

Raddish

