27May

Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

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| --- |
| #include <stdio.h> |
|  | void swap(int \*xp, int \*yp) |
|  | { |
|  | int temp = \*xp; |
|  | \*xp = \*yp; |
|  | \*yp = temp; |
|  | } |
|  | int bubbleSort(int arr[], int n) |
|  | { |
|  | int i, j,count=0; |
|  | int swapped; |
|  | for (i = 0; i < n-1; i++) |
|  | { |
|  | swapped = 0; |
|  | for (j = 0; j < n-i-1; j++) |
|  | { |
|  | if (arr[j] > arr[j+1]) |
|  | { |
|  | swap(&arr[j], &arr[j+1]); |
|  | swapped = 1; |
|  | count++; |
|  | } |
|  | } |
|  | if (swapped == 0) |
|  | break; |
|  | } |
|  | return count; |
|  | } |
|  | void printArray(int arr[], int size) |
|  | { |
|  | int i; |
|  | for (i=0; i < size; i++) |
|  | printf("%d ", arr[i]); |
|  | printf("\n"); |
|  | } |
|  | int main() |
|  | { |
|  | int arr[50],num; |
|  | printf("enter the number of elements"); |
|  | scanf("%d",&num); |
|  | printf("enter the elements"); |
|  | for(int i=0;i<num;i++){ |
|  | scanf("%d",&arr[i]); |
|  | } |
|  | int c=bubbleSort(arr, num); |
|  | printf("Sorted array: \n"); |
|  | printArray(arr, num); |
|  | printf("Number of passes:%d\n",c); |
|  | return 0; |
|  | } |

Java Program to calculate simple interest

|  |
| --- |
| import java.util.Scanner; |
|  | public class JavaExample |
|  | { |
|  | public static void main(String args[]) |
|  | { |
|  | float p, r, t, sinterest; |
|  | Scanner scan = new Scanner(System.in); |
|  | System.out.print("Enter the Principal : "); |
|  | p = scan.nextFloat(); |
|  | System.out.print("Enter the Rate of interest : "); |
|  | r = scan.nextFloat(); |
|  | System.out.print("Enter the Time period : "); |
|  | t = scan.nextFloat(); |
|  | scan.close(); |
|  | sinterest = (p \* r \* t) / 100; |
|  | System.out.print("Simple Interest is: " +sinterest); |
|  | } |
|  | } |