Apex College

BCIS Program

Affiliated to Pokhara University



Data Structure & Algorithms

Lab Report ೨**೮**

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Lab 16 objectives

- To understand the working process and understandy 7 concepts of shell sort algorithm

#Introduction

Shell sost is a highly efficient sorting algorithm that is based on insertion sort algorithm. It is also known as diminishing increment sort. This algorithm use & insertion sort on a widely spread elements, first to sort them and then sort the less widely spaced (interval) elements. The distance or space between compansions decreases as the softing algorithm runs until the lost phase mulich adjacent elements are componed.

This algorithm is only efficient for medium size lost. Time complexity; O(n)

Steps; Initialize the value of count

Stop2; Dvide the Col into smaller sub-lot of equal

steps: sort those sub lists voing insertion sort elgo.

stey: Repeat step 2 & 3 untit adjacent elements one