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| **Assignment No: 13**  Implement the Shell sort algorithm implemented in Java demonstrating shell data structure with modularity of programming language.    **Program:**  public class ShellSort { int shell\_sort(int my\_arr[]) { int arr\_len = my\_arr.length; for (int gap = arr\_len / 2; gap > 0; gap /= 2) { for (int i = gap; i < arr\_len; i += 1) { int temp = my\_arr[i];  int j;  for (j = i; j >= gap && my\_arr[j - gap] > temp; j -= gap) my\_arr[j] = my\_arr[j - gap]; my\_arr[j] = temp;  } } return 0; |

}

public static void main(String args[]) {

int my\_arr[] = { 23,100,

-

90

,91,

0

}

;

ShellSort s1 = new ShellSort();

s1.shell\_sort(my\_arr);

System.out.println("The array, after performing shell sort is : ");

int arr\_len = my\_arr.length;

for (int i = 0; i < arr\_len; ++i)

System.out.print(my\_arr[i] + "

");

System.out.println();

}

}

**Output:**

