**Design and Analysis of Algorithm**

**Experiment No. : 7**

**Write a program to implement Job sequencing with deadline.**

Experiment No. 7

1. **Aim:** Write a program to implement Job Sequencing with deadline..
2. **Algorithm**

In job sequencing problem, the objective is to find a sequence of jobs, which is completed within their deadlines and gives maximum profit**.**

**Job-Sequencing-With-Deadline (D, J, n, k)**

D(0) := J(0) := 0

k := 1

J(1) := 1 // means first job is selected

for i = 2 … n do

r := k

while D(J(r)) > D(i) and D(J(r)) ≠ r do

r := r – 1

if D(J(r)) ≤ D(i) and D(i) > r then

for l = k … r + 1 by -1 do

J(l + 1) := J(l)

J(r + 1) := i

k := k + 1

1. **Conclusion and Discussion:** Hence we have implemented Job Sequencing with deadline algorithm by using greedy approach.