



Daffodil
International
University

Assignment

Only for course Teacher						
		Needs Improvement	Developing	Sufficient	Above Average	Total Mark
Allocate mark & Percentage		25%	50%	75%	100%	8
Delivery	3					
Content/Organization	3					
Enthusiasm/Audience Awareness	2					
Total obtained mark						
Comments						

Semester: Spring 24

Student Name: Masrife Khan Efte

Student ID: 222-35-1207

Batch: 38

Section: A

Course Code: SE 232

Course Teacher Name: Ms. Bohnishika Halden

Course Name: Operating system and system programming

Designation: Lecturer

Submission Date: 22/05/24.

Answer to the question no: 01

Resource we got:

$$A = 10$$

$$B = 5$$

$$C = 10$$

Process	Allocation	Max	Need	Available
	A B C	A B C	A B C	A B C
P ₀	1 1 1	7 5 3	6 4 2	2 2 3
P ₁	0 2 2	3 2 3	3 0 1	
P ₂	3 0 2	0 9 2	3 9 0	
P ₃	4 0 1	4 3 3	0 3 2	
P ₄	0 0 1	3 3 3	3 3 2	

Here, with available resources we can't execute a single process. The deadlock can't be avoided.

Answer to the question no: 02

Resource type:

$$A = 10$$

$$B = 5$$

$$C = 10$$

Process	Allocation	Max	Request	Available
	ABE	ABE	ABE	ABE
P ₀	1 1 1	7 5 3	4 5 1	2 2 3
P ₁	0 2 2	3 2 3	0 0 0	2 4 5
P ₂	3 0 2	0 9 2	2 0 2	5 4 7
P ₃	4 0 1	4 3 3	1 0 0	9 4 8
P ₄	0 0 1	3 3 3	0 0 2	9 4 9

Sequence P₁, P₂, P₃, P₄

we can't execute the P₀ because of enough resources. so, we detect deadlock in current circumstance