Name	ID	Contribution in assignment
Ansir Ali	L1f23bsse0388	
Muhammad Arham	L1f23bsse0372	

CLO	At the end of the course the students will be able to:	Domain	BT Level*	PLO
CLO3	Evaluate quality of software design	C	C5	PLO4

CLO-1		CLO-2		CLO-3		CLO-4	
Question	Points	Question	Points	Question	Points	Question	Points
-	-	-	-	1	40	-	
				Total	40 + 10 = 50	Total	

Deadline: 25-June-25   **Total Marks: 50**

Portal Submission: 25 - 6 - 25   08:00 am (Only 1 submission per group is required) [5 Marks]

Hard Copy Submission: 25 – 6 - 25 (During Class, Only 1 submission per group is required)

Instructions:

- It's a Group assignment. Maximum 2 members per group is allowed.

- Only handwritten solution will be accepted.

- **Late Submission:** 25% penalty for the first day, 50% for the second day, and 100% for days later on.

- **Evaluation:** 60% marks will be for assignment and 40% marks will be based on evaluation (quiz or viva).

- **Plagiarism:** There is a strict policy against plagiarism and cheating. **The penalty can be an F grade.**

- **Title Page:** Attach this title page to your assignment, fill info in all boxes before submission. [5

Question #01

Answer Ali
M. Arham

Given:

Task characteristics:-

Task	Release Time	Time Period	Execution Time	Deadline
X	0	5	2	5
Y	0	10	3	7
Z	4	12	1	4

Timeline 0 to 20.

I Apply fixed Priority Scheduling:-

○ **Sementic importance:-**

• X →high   • Y →mediam   • Z → low

$$X > Y > Z$$

○ **Deadline Monotonic:-**

• Z → high   • X →Medium   • Y →low

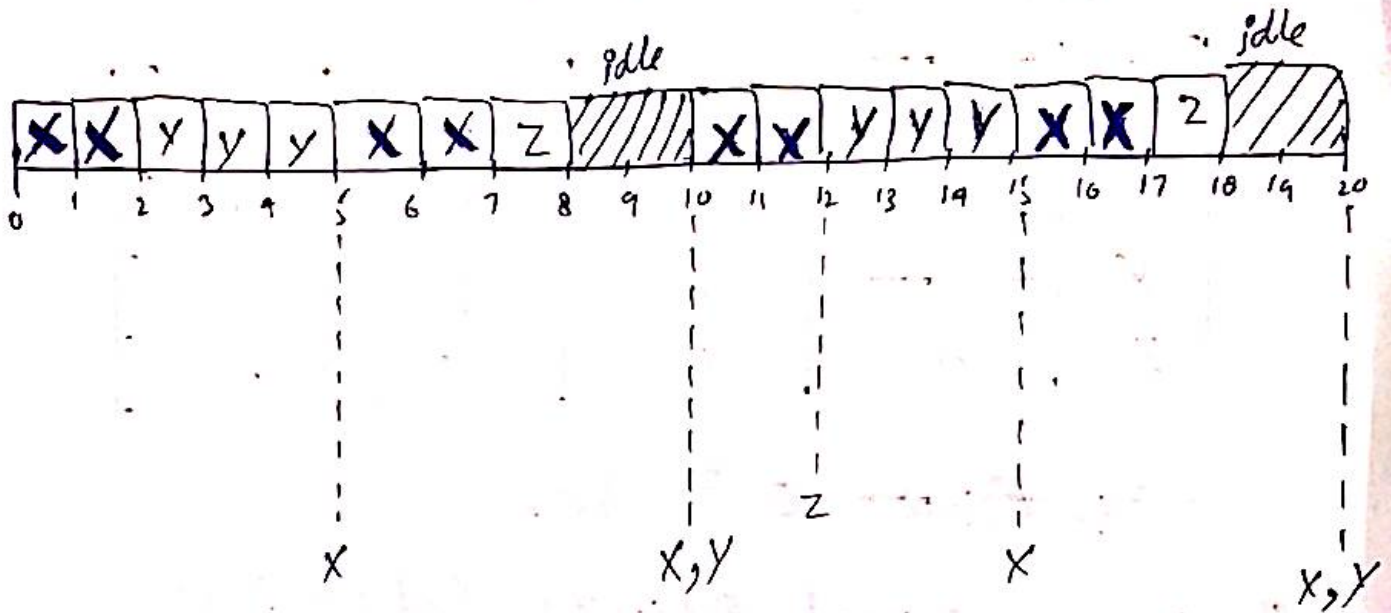$$Z > X > Y$$

○ **Rate Monotonic Scheduling:- (RMS)**

• X → high   • Y → mediam   Z → low

$$X > Y > Z$$

Rate Monotonic Scheduling:-

Ans By Ali
M.Arham

$$Priority = x > y > z$$

According to Time period.

					idle										idle				
X	X	Y	y	y	X	X	Z	▨	X	X	y	y	y	X	X	Z	▨		

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

X   Z   X,Y   X   X,Y

Deadline Monotonic Scheduling:

$$Priority = Z > X > Y$$

$\Rightarrow Z$ is released at 4.

period 12
4 - 16

According to deadline

								idle										idle	
X	X	Y	y	Z	X	X	y	▨	X	X	y	y	y	X	Z	X	▨		

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

DY Dz   Dx   Dz   DY

Dx   X,Y   Z   Dx

X   X,Y   X   X,Y
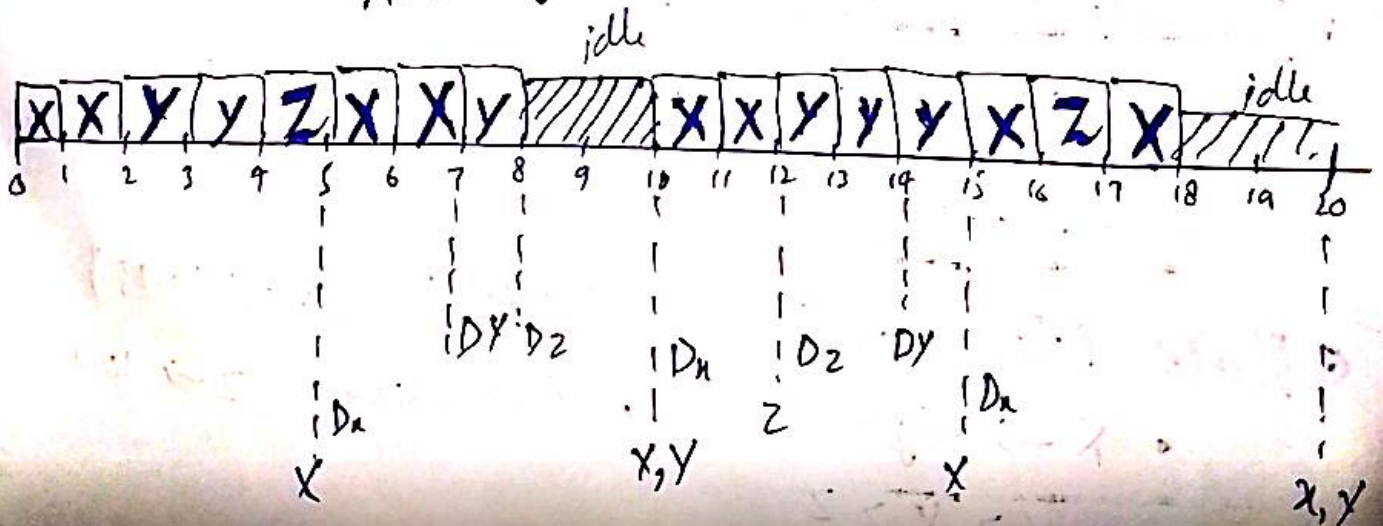
Sementic Importance Scheduling:-

Priority = $x > y > z$