***Quiz 1***

***First question: -***

*First fetch cycle:*

AC= 0000 IR= 1940 PC= 300

940= 0003 941= 0002

*First execute cycle:*

AC= 0003 IR= 1940 PC= 300

940= 0003 941= 0002

*second fetch cycle:*

AC=0003 IR=5941 PC= 301

940= 0003 941= 0002

*Second execute cycle:*

AC= 0005 IR= 5941 PC= 301

940= 0003 941= 0002

*Third fetch cycle:*

AC= 0005 IR= 2941 PC= 302

940= 0003 941= 0002

*Third execute cycle:*

Ac= 0000 IR= 2941 PC= 302

940= 0003 941= 0005

***Second question: -***

*First fetch cycle:*

AC= 0000 IR= 1550 PC=300

550= 0003 551=0004 600=0000

*First execute cycle:*

AC= 0003 IR= 1550 PC= 300

550= 0003 551= 0004 600= 0000

*second fetch cycle:*

AC=0003 IR=5551 PC= 301

550= 0003 551= 0004 600=0000

*Second execute cycle:*

AC= 0007 IR= 5551 PC= 301

550=0003 551=0004 600=0000

*Third fetch cycle:*

AC= 0007 IR= 2600 PC= 302

550= 0003 551= 0004 600= 0000

*Third execute cycle:*

Ac= 0000 IR= 2600 PC= 302

550= 0003 551= 0004 600= 0007

***Third question: -***

300

3005

***memory*** 🡪

301

5940

302

7006

After the execution:

Device 5= 0003 ,940= 2 ,Device6= 0005