1. Zapis cijelih brojeva METODOM PREDZNAKA I APSOLUTNE VRIJEDNOSTI

Predznak: 0 (+) 1 (-)

1. Zapiši broj -37 metodom predznaka i apsolutne vrijednosti u 8-bitni registar

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |

37:2=18 1

18:2=9 0

9:2=4 1

4:2=2 0

2:2=1 0

1:2=0 1

 $37\_{\left(10\right)}=100101\_{(2)}$

1. Metodom predznaka i apsolutne vrijednosti zapiši sljedeće brojeve u 8-bitne registre:
2. -17
3. 25
4. 0
5. -0

**Rj.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

1. Metodom predznaka i apsolutne vrijednosti zapiši broj $200\_{(10)}$ u 16-bitni registar.

**Rj.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |

1. U sljedećim registrima zapisani su brojevi metodom predznaka i apsolutne vrijednosti. Koji su to brojevi?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |

 **Rj.**

1. -89
2. 33
3. -15
4. Koji je najveći broj koji se može zapisati u 8-bitni registar metodom predznaka i apsolutne vrijednosti?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Rj.**

+(1+2+4+8+16+32+64) = 127

1. Koji je najmanji broj koji se može zapisati u 10-bitni registar metodom predznaka i apsolutne vrijednosti?

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Rj.**

-(1+2+4+8+16+32+64+128+256) = -511

**DZ**

1. Zapiši brojeve -87 i +52 metodom predznaka i apsolutne vrijednosti u 8-bitni registar
2. MPAV u 16b registar zapisan je sljedeći broj. Koja je njegova dekadska vrijednost?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |