6. Prezentaţi numărul –AF,D616, +456,7810 în virgulă flotantă simplă precizie presupune reprezentarea pe 32 de biti (3p)

**Pasul 1**: Realizam conversia nr in binar utilizand metoda corespunzatoare

AF,D616 = 10101111, 11010110 2

**Pasul 2:** Reprezentam nr binar sub forma de mantisa normalizata cu bit ascuns

10101111, 11010110 2 = 1, 0101111 11010110 2 \*27

**Pasul 3:** Calculam caracteristica C = E + 127(constanta de deplasament pentru simpla precizie)

C = 7 + 127 = 13410

13410 = 128 + 6 => 10000000 + 110 = 100001102

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | **,**22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |