) Floating point representation !-There are various architecures and each of them has their own supresentation. To avoid confusion all should follow a single representation. One of the famous repsentation is IEE 754. Single Precision (32 bit 9 representation) Double Precision

[Signs Exponent Mandred St E M 1

1 bit 8 bits (23 bits)

1 bit 8 bits (23 bits) Standard Conversion: & E-bias S-Sign E-Exponent from this conversion we can say that m-mautissa. Mantissa plays a vital note. bias = 127 (for Single pregio bisas=1023 (for double precision) Eg:-1/2 =0333333 & Condept numbers com le sie Mientighe 3 1.7012,1818 19 01010101010101010101011 -> 3 EAA AAB.  $-) \left(-1\right)^{9} \times \left(1+0.333322\right) \times 2 = 0.3333333 \text{ for GA}$ precision icreases with parinchease in martisa. So double precision is more precise than single precision.