```
1. Initialize _ parameters _ deep (layer dims)
       return parameters ( WII] ... WIL]
2. linear - Harmard (A.W.b)
                                                     torward
        return Z, cache
                             Z = np. dot(W,A) + b
                                                     propagation
                              cache (A, W,b)
 3. linear - activation - farmard (A - prev, w,b, activation)
            activation = "sigmoid":
                                                              Way
             Z, linear_coche = linear_forward (A-prev, W,b)
             A, activation-cache = sigmoidez)
                                                              activation
        elif activation = "relu":
                cache (linear-cache, activation-cache)
                return A, cache (A-prev. w,b, Z)
 4. L-model - forward (x, parameter)
           A=X, len (parameters) 12 -> how many layers.
                                                                           7 parameter
             for In L-1 } A, cache = linear - activation-forward (A-prev, w, b, "relu")
Caches append (cache)
                          AL, cache = linear_ activation-forward (A, W, b, "sig moid")
                             Caches. append (cache)
 5. Cost function
      linear_bookword (dz, cache) {A-prev, w,b, z}
        return dA-prev, dw, db
    linear - activation - backward (dA, cache, activation)
                                                        [H2]Ab) &
     1) linear - Cache, activation - cache = cache
     @ if activation = "relu"
                          ="sigmoid" different way to calculate dz
                                                     Lo linear - backward (dz, linear Leache)
    3 return dA - prev, dw, db
  8. L- model - backward (AL, Y, caches)
```