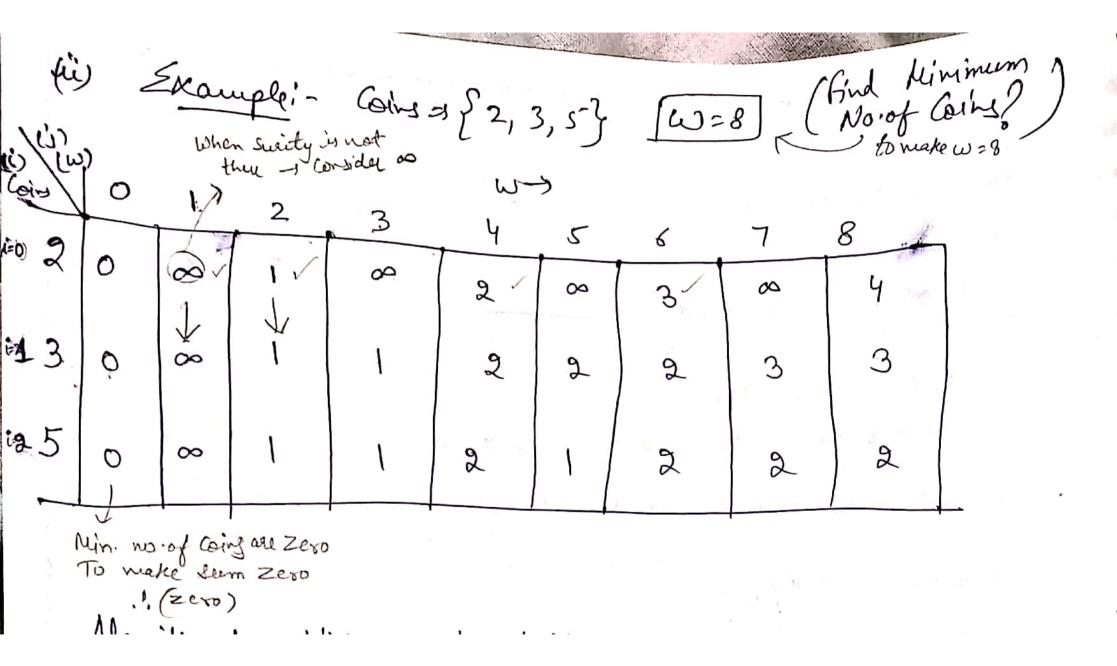


```
(i) No. of ways = (9) des.
Algorithm 1. (finding No. of ways)

I if coin value > w, then just copy the above value.

1) Initialize value=1 for oth Column
a) for (i=0; i < coin. length; i++)
           for(j=1; j < amount; j++)
                                         // Row =0
              a[o][j] = a[i][j-coin[i]]
             else if (coin[i]>j)
                   [2] a [i] [i] = a[i-1] [j];
                   else
                       a[i][j]=a[i-1][j]+a[i][j-coin[i]]
           3
```



```
Algorithm! - (Minimum No. of Coine)
 // if coin[i] > w just copy above value.
1) Initialize oth Column = 0 (i.e. min. no. of zero coin required to make sum =0)
2)/ Initialize 1st row [2]
 for (int i=0; i < coin.length; i++)
     for (i=1; j & Sum ; j++)
     { if (i==0)
            if (j /, coin[o] == 0)
                 a[i][j]=j/coin[0]
             else afi][j]= 00
                                             (nw)
        else if (coin[i]zj)
                 a[i][j] = a[i-1][j]
                 ali][j]=minfa[i-][j], 1+a[i][j-coin[i]]
```