```
Rotan whitch,
given agreet of (a mule)
compares if it is even
             [n*2 | n 4 [1,2,3]]
                              [2,4,6]
     map :: (a > b) -> [a] -> [b]
            f [] = []
     Map
     map f (x:xs) = fx : map f as
      map ( \n -> n +2) [1,2,3]
   map (*2) [1,2,3]
  = (+2) 1: map (+2) [2,3]
   = 2 : map (+2)[7,7]
   = 2 (+2) z : wap (+2) [3]
   = 2 : 4 : 2 (52)[3]
    = 2 : 4 : (+?)3 : []
    = 2 : 4 : 6 : []
  mp is Cap ['X', 'b']
  = [ Tru, Faile]
        map is Cap :: [Char] - [Book]
    Aggregation / Country / Reducing / Folding
foldr :: (a > b > b) -> b.
                               \rightarrow [a] \rightarrow b
                                                vesylt
                                   List to be
                                                 aggregaton
foldr f v [] = v
Fold f V (x:xs) = f x (fold f. v xs)
Everyle implement set summation very follow
       sum :: [Int] > Int
        Sum = foldr (+) 0
sum [1,2,3]
          = folder (+) 0 [1,2,3]
           = (+) 1 (foldo (+) 0[2,3])
           = (+) 1 ((+) 2 (folder (+) 0[3]))
           = 6) 1 ((+) 2 (6) 3 (foldr (+)0 [])))
            = (4) ((+) 2 ((+) 3 0))
            = (+) | ((+) 2 3)
            = (+) 1 5
```