```
import numpy as np
class mcp:
    def __init__(self,X):
        self.X=X
        #self.y=y
    def g(self):
        return np.sum(self.X,axis=1)
    def f(self,op):
        y=[]
        b=self.X.shape[1] if op=='And' else 1
        for i in range(X.shape[0]):
            \#print(1 \text{ if self.g()[i]} >= b \text{ else 0})
            if self.g()[i] >= b:
                 y.append([1])
            else:
                 y.append([0])
        return np.array(y)
    #def loss cal(y pred,y):
        return ((y-y pred)**2).mean()
n=int(input('Enter no of instances: '))
m=int(input('Enter no of features: '))
X=np.random.randint(2,size=(n,m))
print('\nTruth table:\n',X)
neuron=mcp(X)
print('\nOuput of And operation:\n',neuron.f('And'))
print('\nOuput of Or operation:\n',neuron.f('Or'))
     Enter no of instances: 4
    Enter no of features: 3
     Truth table:
      [[0 1 0]
      [1 \ 1 \ 1]
      [0 1 0]
      [0 1 0]]
     Ouput of And operation:
      [0]]
      [1]
      [0]
      [0]]
    Ouput of Or operation:
      [[1]
      [1]
      [1]
      [1]]
```

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