```matlab
% Created by Utkarsh Ghore (BT22ECI032)
% DIP lab 4
% To Perform Shannon-Fano coding technique

clc
clear all
close all

prob = [0.5, 0.2, 0.2, 0.05, 0.05]; % Input probability array
codes = shannonFano(prob)
```

codes =

  1×5 cell array

    {'0'}   {'10'}   {'110'}   {'1110'}   {'1111'}

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