```
function U = Utility(k_ss, econom_param, test_param, z)
   a = econom_param.alpha;
   d = econom param.delta;
   g = econom_param.gamma;
   u = econom_param.mu;
   GridPoints = test param.T;
   % Constroi o Grid de K, k1 e h
   U.k domain = linspace(0.25\timesk_ss, 1.25\timesk_ss, GridPoints);
   U.h_domain = linspace(0, 1, GridPoints);
    [U.k1, U.h, U.k] = meshgrid(U.k_domain, U.h_domain, U.k_domain);
    % Calcula o consumo para cada ponto do grid
    [U.Consumption, U.Production] = Consumption(U.k, U.k1, U.h, econom_param, z);
   % caso o consumo seja negativo imponho consumo zero.
   U.Consumption(U.Consumption<0) = 0;</pre>
   % Calcula a utilidade associada
   U.Value = ((U.Consumption .^g .* (1-U.h).^(1-g) ).^(1-u) )/(1-u);
end %end of function Utility
```