```
function [Q,R] = Gram_Schmidt(B)
[M,N] = size(B);
v1 = B(:,1);
R(1,1)=norm(v1); Q(:,1)= v1/R(1,1);
for n=2:min(M,N)
    vn=B(:,n);
    R(1:n-1,n) = Q(:,1:n-1)'*vn;
    qn = vn -Q(:,1:n-1)*R(:,n);
    R(n,n) = norm (qn);
    Q(:,n) = qn/R(n,n);
end
hold on, grid on;
S=0;
quiver3 (0,0,0,Q(1,1),Q(2,1),Q(3,1),S,"Color","r","LineWidth",2);
quiver3 (0,0,0,Q(1,2),Q(2,2),Q(3,2),S,"Color","g","LineWidth",2);
quiver3 (0,0,0,Q(1,3),Q(2,3),Q(3,3),S,"Color","b","LineWidth",2);
axis ("equal"), xlabel("x"), ylabel("y"), zlabel("z")
view( 8,15)
end
```

```
Not enough input arguments.

Error in Gram_Schmidt (line 2)
[M,N] = size(B);
```

Published with MATLAB® R2023b