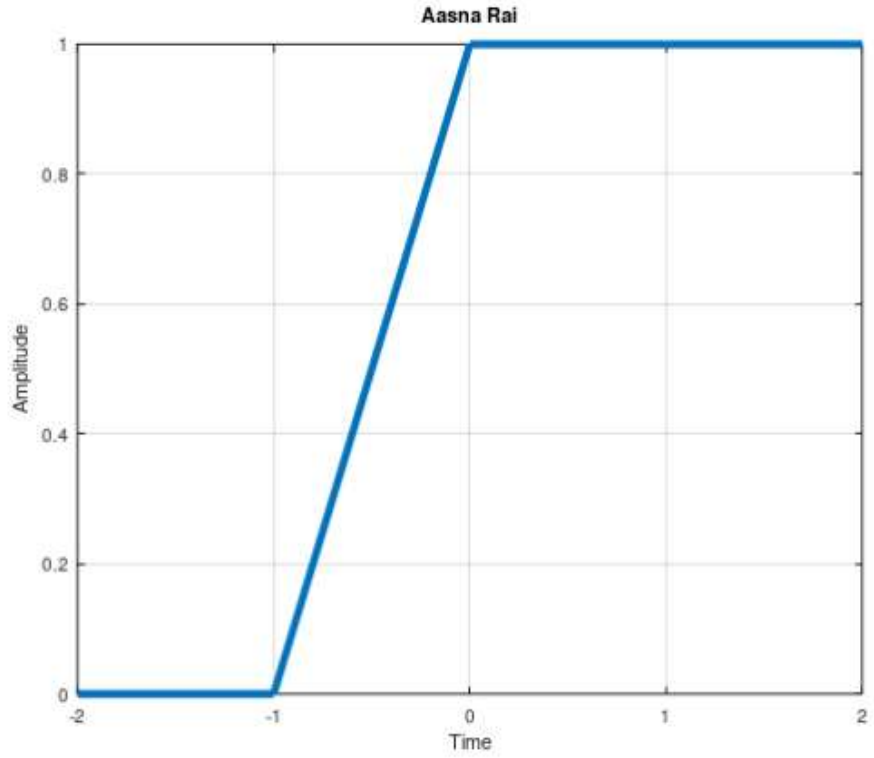
```
% program to print the unit step wave using loops and conditions%
t=-2:2;
x=zeros(1,length(t));
for i=1:length(t)
    if(t(i)>=0)
       x(i)=1;
    else
       x(i)=0;
    end;
end;
plot(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;
```

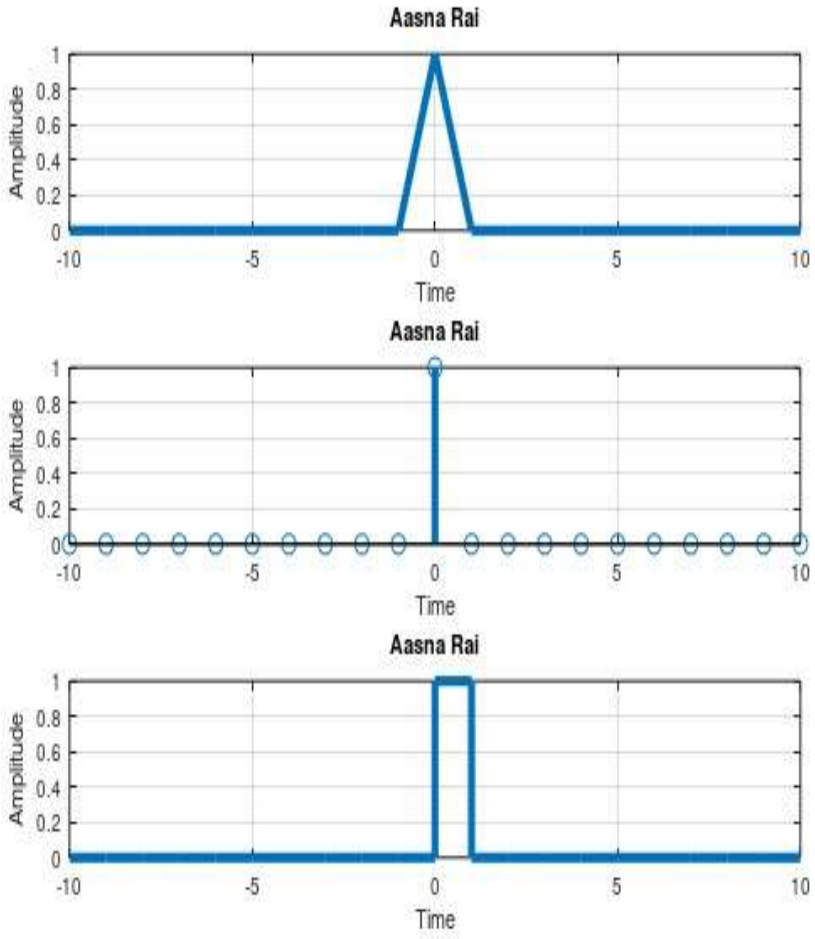
Output



```
t=-10:10;
x=zeros(1,length(t));
for i=1:length(t)
    if(t(i)==0)
       x(i)=1;
    else
       x(i)=0;
    end;
end;
figure
subplot(3,1,1)
plot(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;

subplot(3,1,2)
stem(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;

subplot(3,1,3)
stairs(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;
```



```
t=-10:10;
x=zeros(1,length(t));
for i=1:length(t)
    if(t(i)>=0)
       x(i)=t(i);
    else
       x(i)=0;
    end;
end;
figure
subplot(3,1,1)
plot(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;

subplot(3,1,2)
stem(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;

subplot(3,1,3)
stairs(t,x,'linewidth',3);
xlabel('Time');
ylabel('Amplitude');
title('Aasna Rai');
grid on;
```

Output

```
[Execution complete with exit code 0]
```