

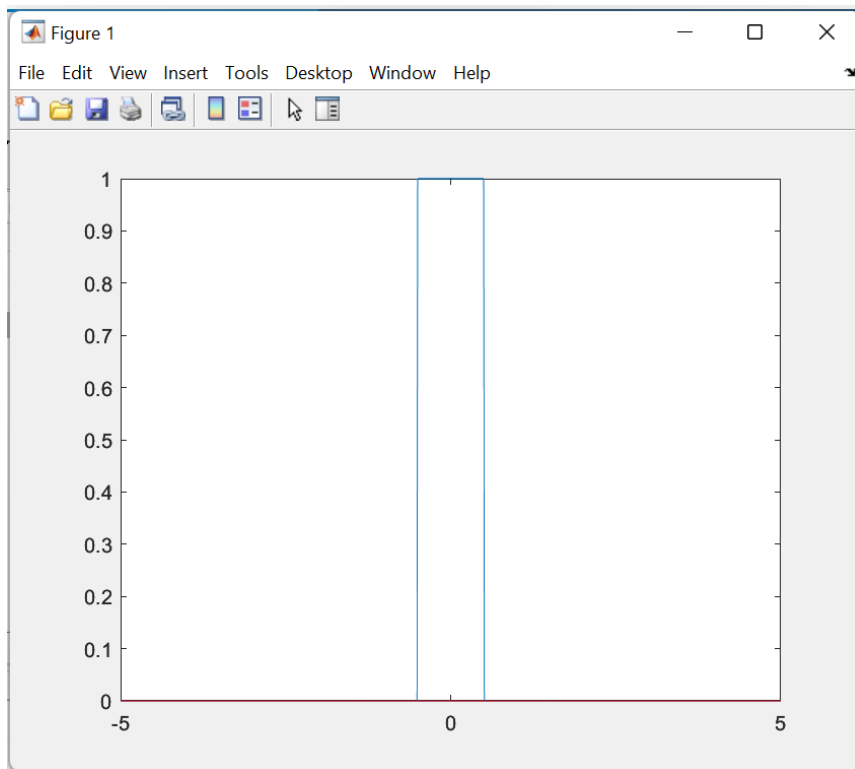
## Report Of PCS Assignment-1 (for programming questions)

Ans-4)

(i)

Assumptions -> In boxt(t1, t2) function;  $t2 \geq t1$

Figure->



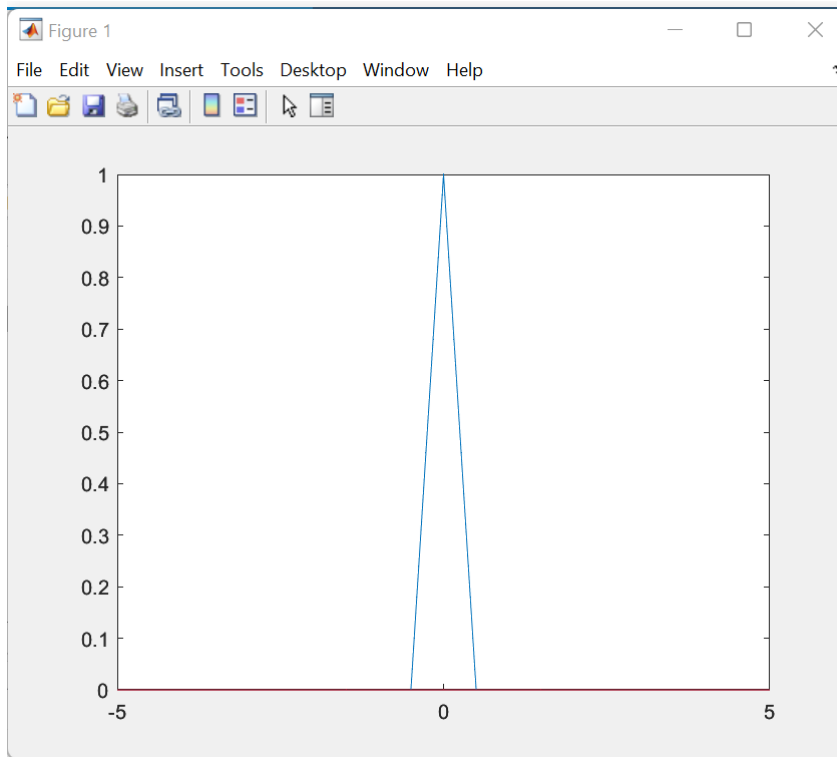
Code ->

```
pcs_a1_1.m  pcs_a1_2.m  +
1  myfn=@boxt;
2  myfn(-5,5);
3  function boxt(t1,t2)
4  % please note that t2 >= t1
5      if(t2~=t1)
6          n=0:0.01:(t2-t1);
7          x=zeros((t2-t1)*100 +1);
8          for m=0:0.01:((t2-t1))
9              if m+t1>=-0.5 && m+t1<=0.5
10                 x(int16(m*100) +1)=1;
11             end
12         end
13         figure(1);
14         plot(n+t1,x);
15     else
16         n=ones(1);
17         x=zeros(1);
18         if t1>=-0.5 && t1<=0.5
19             x(1)=1;
20         end
21         figure(1);
22         plot(n+t1-1,x);
23     end
24 end
```

(ii)

Assumptions -> None

Figure ->



Code ->

```
pcs_a1_1.m pcs_a1_2.m +
1  n=0:0.01:10;
2  x=zeros(1001);
3  for m=0:1:1001
4      if m>=450 && m<=500
5          x(m+1)=1+2*((m*0.01)-5);
6          elseif m>500 && m<=550
7              x(m+1)=1-2*((m*0.01)-5);
8          end
9      end
10  figure(1);
11  plot(n-5,x);
```