**PRACTICAL NO: 6(A)**

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Name :

Roll No:

Aim : Computation of Correlation coefficient using Covariance Method

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function [**c**]=cov(**x**, **y**)

n=length(**x**);

sx=sum(**x**);

sy=sum(**y**);

sxy=sum(**x**\***y**');

**c**=(sxy-sx\*sy/n);

if(**c**>0) then

printf('x and y are positively correlated\n');

else

printf('x and y are negatively correlated\n');

end

return(**c**);

endfunction

**output:-**

-->x=[1,2,3,4,5];

-->y=[2,4,1,3,5];

-->cov(x,y)

x and y are positively correlated

ans =

5.