

WEEK - 6
TRAPEZOIDAL JOG AXIS +X,-X,+Y,-Y,+Z,-Z

Name: **KAVIN KISHORE S G**
Roll No: **7376221CS191**

Day - 1	Excel calculation
Day - 2	Excel calculation
Day - 3	Coding
Day - 4	Coding +X, -X
Day - 5	Coding +Y, -Y, +Z, -Z

Sample UI:

Enter the Speed

select

Enter the Distance

select

Select Profile

☐ Triangle

☐ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

Total SumVelocity

0.00000

Last Position of x-axis

0.00

Last Position of y-axis

0.00

Last Position of z-axis

0.00

Jog +X:

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

	Positon x-axis	Position y-axis	Positio
491	499.74698808		
492	499.81024106		
493	499.86445790		
494	499.90963860		
495	499.94578316		
496	499.97289158		
497	499.99096386		
498	500.00000000		
499	500.00000000		

Total SumVelocity

499.4998730800

Last Position of x-axis

500.00000000

Last Position of y-axis

0.00

Last Position of z-axis

0.00

Jog -X:

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

	Positon x-axis	Position y-axis	Positi
1489	-499.747		
1490	-499.81		
1491	-499.864		
1492	-499.91		
1493	-499.946		
1494	-499.973		
1495	-499.991		
1496	-500		
1497	-500		

Total SumVelocity

499.4998730800

Last Position of x-axis

-500.00000000

Last Position of y-axis

0.00

Last Position of z-axis

0.00

Jog +Y:

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

Total SumVelocity

499.4998730800

Last Position of x-axis

-500.00000000

Last Position of y-axis

1000.00000000

Last Position of z-axis

0.00

Jog -Y:

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

Total SumVelocity

499.4998730800

Last Position of x-axis

-500.00000000

Last Position of y-axis

-1000.00000000

Last Position of z-axis

0.00

Jog +Z:

MainWindow

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

Total SumVelocity

499.4998730800

Last Position of x-axis

-500.00000000

Last Position of y-axis

-1000.00000000

Last Position of z-axis

1500.00000000

Jog -Z:

MainWindow

Enter the Speed

1

Enter the Distance

500

Select Profile

☐ Triangle

☒ Trapezoidal

☐ S - Curve

+X

+Y

+Z

-X

-Y

-Z

RUN

CLEAR

Total SumVelocity

499.4998730800

Last Position of x-axis

-500.00000000

Last Position of y-axis

-1000.00000000

Last Position of z-axis

1000.00000000