

LAB 3 ASSIGNMENT

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1. Write a matlab code which computes the cumulative sum of a vector using for loop.

```
n=input('enter value');
x=1:n
y=0;
for n=1:length(x)
    y=y+n;
end
disp('the sum is')
disp(y)
```

enter value

10

the sum is

55

2. Write a matlab code which computes the cumulative sum of a vector at every fifth element.

```
x = 1:10;
xsums = cumsum(x);
y = xsums(5:5:length(x))
```

y =

15 55

3. Write a matlab code which computes the cumulative sum of a vector using vectorization.

```
n=input('enter value for cumulative sum');
y=0;
x=0:n;
xsums=sum(x)
```

enter value for cumulative sum

15

xsums =

120

4. Create a 2-D line plot and specify the line style, line color, and marker type.

```
x = 0:pi/100:2*pi;  
y = sin(x);  
plot(x,y,'m:')
```

