

```
disp('Name: Jacob V Sanoj')
```

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```

```
disp('SRN: PES1UG20EC083')
```

```
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```

```
%  
3^2
```

```
ans =  
     9
```

```
sin(pi/2)
```

```
ans =  
     1
```

```
7/0
```

```
ans =  
     1/0
```

```
73220.3
```

```
ans =  
 219661/3
```

```
a=9 % assigning value of 9 to a
```

```
a =  
     9
```

```
x=sqrt(25)% answer should be 5
```

```
x =  
     5
```

```
b=2; c=7; d=a % multiple assignments on same line
```

```
d =  
     9
```

```
initial_velocity=0;  
acceleration = 9.8;  
time= 20;  
final_velocity = initial_velocity+ acceleration*time
```

```
final_velocity =  
    196
```

```
%long format  
format long  
soln = 7+10/3 +5^1.2
```

```
soln =  
    17.231981640639408
```

```
%short format  
format short  
soln1 = 7+10/3 +5^1.2
```

```
soln1 = 17.2320
```

```
%format short e  
format short e  
4.678 * 4.9
```

```
ans =  
    2.2922e+01
```

```
%format rat gives closest rational number  
format rat  
4.678 * 4.9
```

```
ans =  
    2063/90
```

```
%row vector  
X=[7 8 9 10 11]
```

```
X =  
     7         8         9        10        11
```

```
X1 = [7 8 9 10 11];Y = [2, 3, 4, 5, 6]; Z = X1 +Y
```

```
Z =  
     9        11        13        15        17
```

```
%3X3 matrix  
A = [1 2 3 ; 4 5 6 ; 7 8 9]
```

```
A =  
     1         2         3  
     4         5         6  
     7         8         9
```