

2>a>

code:-

```
function Z= logrith()  
X=log(exp(3));  
Y=log10(exp(3));  
U=log10((10.^5));  
disp('the value of ln(e.^3)');  
display(X);  
disp('the value of log10(e.^3)');  
display(Y);  
disp('the value of log10(10.^5)');  
display(U);  
end
```

Result:-

the value of  $\ln(e.^3)$

X =

3

the value of  $\log_{10}(e.^3)$

Y =

1.302883445709755

the value of  $\log_{10}(10.^5)$ ;

U =

5

2>b>

code:-

```
function X=expon()  
Y=(pi)*(nthroot(163,2));  
X=exp(Y);  
display(X);  
end
```

result:-

X =

2.625374126407701e+17