

Exp 21 Write a Prolog Program to implement Towers of Hanoi.

```
hanoi(1,X,Y,_):-write('Move from '), write(X), write(' to '), write(Y), nl.
```

```
hanoi(N,X,Y,Z):-N>1, M is N-1,
```

```
    hanoi(M,X,Z,Y),
```

```
    hanoi(1,X,Y,_),
```

```
    hanoi(M,Z,Y,X).
```

```
?- hanoi(3,left,right,middle).
```

```
Move from left to right
```

```
Move from left to middle
```

```
Move from right to middle
```

```
Move from left to right
```

```
Move from middle to left
```

```
Move from middle to right
```

```
Move from left to right
```

```
true ■
```