

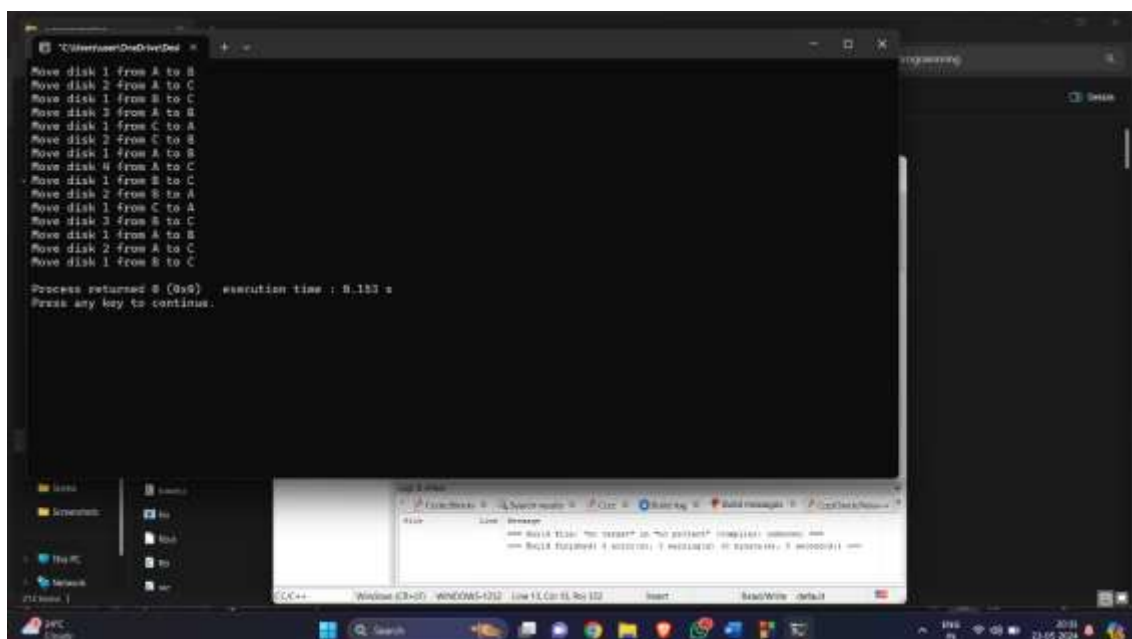
DAY 9

1. Tower

```
#include <stdio.h>
```

```
void hanoi(int n, char from, char to, char via) {  
    if(n == 1){  
        printf("Move disk 1 from %c to %c\n", from, to);  
    }  
    else{  
        hanoi(n-1, from, via, to);  
        printf("Move disk %d from %c to %c\n", n, from, to);  
        hanoi(n-1, via, to, from);  
    }  
}  
  
int main() {  
    int n = 4;  
    char from = 'A';  
    char to = 'B';  
    char via = 'C';  
    //calling hanoi() method  
    hanoi(n, from, via, to);}
```

Output:



```
Move disk 1 from A to B  
Move disk 2 from A to C  
Move disk 1 from B to C  
Move disk 3 from A to B  
Move disk 1 from C to A  
Move disk 2 from C to B  
Move disk 1 from A to B  
Move disk 4 from A to C  
Move disk 1 from B to C  
Move disk 2 from B to A  
Move disk 1 from C to A  
Move disk 3 from B to C  
Move disk 1 from A to B  
Move disk 2 from A to C  
Move disk 1 from B to C  
Process returned 0 (0x0)   execution time : 0.123 s  
Press any key to continue.
```

2. Scope

```
#include <stdio.h>
```

```
void display();
```

```
int main()
```

```
{
```

```
    display();
```

```
    display();
```

```
}
```

```
void display()
```

```
{
```

```
    static int c = 1;
```

```
    c += 5;
```

```
    printf("%d ",c);
```

```
}
```

Output:

