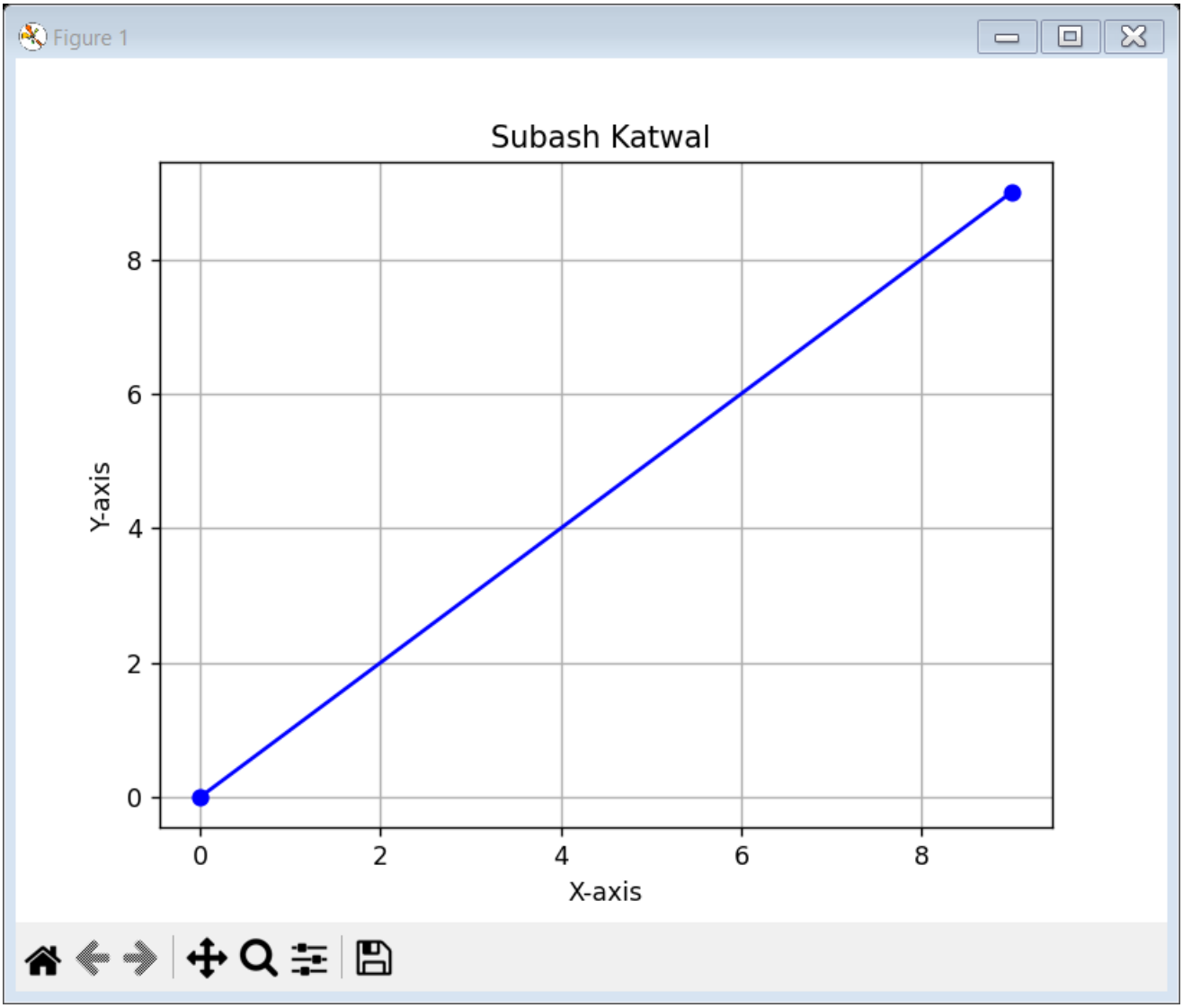
Calculation:

```
C:\practicals 3rd sem>python -u "c:\practicals 3rd sem\Computer graphics\subashh.py"
Enter the first coordinates :
0 0
Point 1 coordinates is :(0.0,0.0)
Enter the second co ordinates :
9 9
Point 1 coordinates is :(9.0,9.0)
```

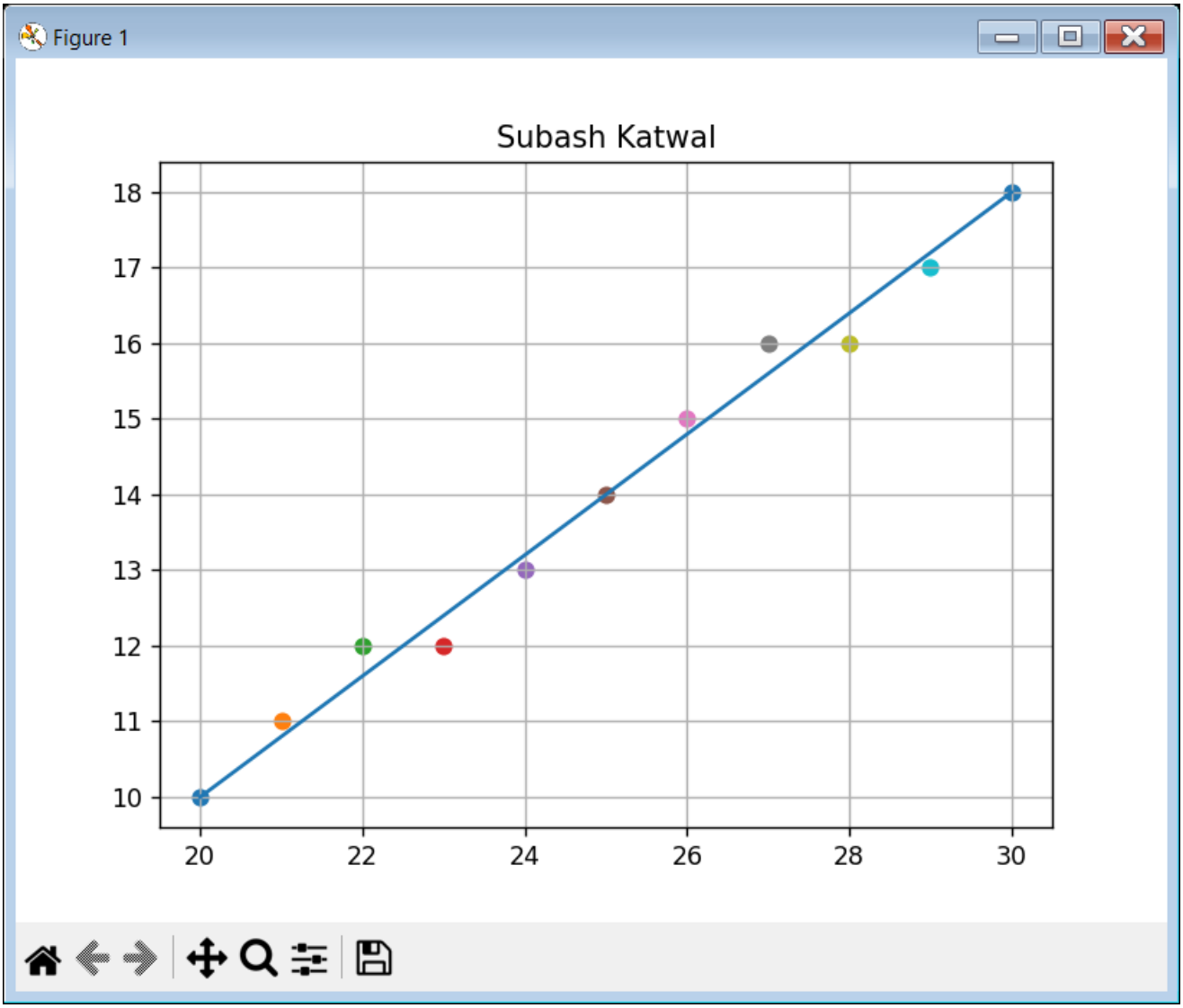
Output:



Calculation table:

```
C:\practicals 3rd sem>python -u "c:\practicals 3rd sem\Computer graphics\subashh.py"
Enter starting co-ordinate x1:20
Enter starting co-ordinate y1:10
Enter ending co-ordinate x2:30
Enter ending co-ordinate y2:18
Step    xk      yk      pk      xk+1    yk+1
-----------------------------------------
2       21.0    11.0    2.0     22.0    12.0
3       22.0    12.0    -2.0    23.0    13.0
4       23.0    12.0    14.0    24.0    13.0
5       24.0    13.0    10.0    25.0    14.0
6       25.0    14.0    6.0     26.0    15.0
7       26.0    15.0    2.0     27.0    16.0
8       27.0    16.0    -2.0    28.0    17.0
9       28.0    16.0    14.0    29.0    17.0
10      29.0    17.0    10.0    30.0    18.0
11      30.0    18.0    6.0     31.0    19.0
```

Output:



Calculation table:

```
C:\practicals 3rd sem>python -u "c:\practicals 3rd sem\Computer graphics\subashh.py"
 Enter x coordinates of a line :1 7
Enter y coordinates of a line 5 2
The x coordinates are(1, 7) and y coordinates are(5, 2)
Step    X       Y       Rounded X       Rounded Y
-------------------------------------------------
1       2.00    4.50    2               4
2       3.00    4.00    3               4
3       4.00    3.50    4               4
4       5.00    3.00    5               3
5       6.00    2.50    6               2
6       7.00    2.00    7               2
```

Output: