

Input:

X	3	5	7	9
F(x)	180	150	120	90

Output:

```
\Desktop\Roshan NM\Unit 2\"forwardNetwon
Input the number of data pairs: 4
Input data pairs of x and f(x)
x[0]: 3
f[0]: 180
x[1]: 5
f[1]: 150
x[2]: 7
f[2]: 120
x[3]: 9
f[3]: 90

Enter the value at which interpolation is required: 4

Interpolated function value at x = 4 is 165.000000
Do you want to input another value? (y/n):
```

Input:

X	1	2	3	4	5
F(x)	10	26	58	112	194

Output:

```
\Desktop\Roshan NM\Unit 2\"forwardNetwon
Input the number of data pairs: 5
Input data pairs of x and f(x)
x[0]: 1
f[0]: 10
x[1]: 2
f[1]: 26
x[2]: 3
f[2]: 58
x[3]: 4
f[3]: 112
x[4]: 5
f[4]: 194

Enter the value at which interpolation is required: 1.4

Interpolated function value at x = 1.4 is 14.863999
Do you want to input another value? (y/n):
```