

OUTPUT:

Lagrange interpolation

```
PS D:\BCA\BCA_4thsem\NumericalMethods\output> & .\'lagrange.exe'  
Enter how many data you want:  
3  
Enter the value of X: -2  
Enter the value of Y: -20  
Enter the value of X: 0  
Enter the value of Y: 2  
Enter the value of X: 6  
Enter the value of Y: 70  
  
What value do u want?  
-1  
  
Your result: -9.041667  
PS D:\BCA\BCA_4thsem\NumericalMethods\output> & .\'lagrange.exe'  
Enter how many data you want:  
3  
Enter the value of X: -2  
Enter the value of Y: -20  
Enter the value of X: 0  
Enter the value of Y: 2  
Enter the value of X: 6  
Enter the value of Y: 70  
  
What value do u want?  
1  
  
Your result: 13.125000
```

OUTPUT:

Least square method (linear regression $y=a+bx$)

```
PS D:\BCA\BCA_4thsem\NumericalMethods\output> & .\'least.exe'  
Enter the number of data:  
6  
Enter value for X:-2  
Enter value for Y:-0.4  
Enter value for X:-1  
Enter value for Y:1.2  
Enter value for X:0.5  
Enter value for Y:3.5  
Enter value for X:2  
Enter value for Y:6  
Enter value for X:3  
Enter value for Y:7.4  
Enter value for X:5.5  
Enter value for Y:11  
2.746916  
1.527313  
y=2.746916 + 1.527313x
```