Lab Activity

1. Make a C++ program that will give the derivative of $f(x)=5x^4+4x^3-8x^2-2x+1$.

Sample output:

Enter the literal coefficient of 1st term: 5 (enter) Enter the exponent of 1st term: 4 (enter)
.
.

The derivative of f(x) is _____.

2. Make a C++ program that will display the 1st up to 6th significant figures of 8.28478.

Sample Output:

Significant, as the name suggests means the number of digits that are actually meaningful to the user.

X=8.28478.

- 1 significant digit 8
- 2 significant digits 8.3
- 3 significant digits 8.28
- 4 significant digits 8.285
- 5 significant digits 8.2848
- 6 significant digits 8.28478
- 3. Make a C++ program for the accumulated error table below.

Variable	Exact Value	Computed Value	Accumulated error
X1	4.99	5	0.01
X2	4990	5000	10
Х3	4990000	5000000	10000
X4	499000000	5000000000	10000000