

Q8. Write a program to input the value of x and n and print the sum of the following series:

- $1+x+x^2+x^3+x^4+ \dots x^n$
- $1-x+x^2-x^3+x^4+ \dots x^n$
- $x + \frac{x^2}{2} - \frac{x^3}{3} + \frac{x^4}{4} + \dots \frac{x^n}{n}$
- $x + \frac{x^2}{2!} - \frac{x^3}{3!} + \frac{x^4}{4!} + \dots \frac{x^n}{n!}$

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