

Computer & Systems Eng. Section. Computer Eng. I (CCE108) Dr. Sayed Taha

Sheet 2

- 1. Write a Java program to find factorial of a number.
 - a. using for loop
 - b. using while loop
 - c. finding factorial of a number entered by user
- 2. Write a Java program to find the sum of the series $(1/a + 2/a^2 + 3/a^3 + ... + n/a^n)$.
- 3. Write a Java program to compute the cosine of x. The user should supply x and a positive integer n. We compute the cosine of x using the series and the computation should use all terms in the series up through the term involving x^n . $\cos x = 1 x^2/2! + x^4/4! x^6/6! \dots$
- 4. Write a Java program to Compute Sum of Series 1/1! + 1/2! + 1/3! + 1/4! + ... + 1/n!
- 5. Write a Java program to print following:

i)	*****	ii)	*	iii) *
	*****		**	**
	*****		***	***
	*****		****	****
			****	****

6. Write a java program to compute sinx for given x.

Hint: $\sin x = x - x^3/3! + x^5/5! - x^7/7! + x^9/9! \dots$