

All human actions have one or more of these seven causes: chance, nature, compulsion, habit, reason, passion, and desire. Aristotle

## Homework 05

## [Repetition]

Note: It is assumed that all tasks should be solved using loop.

## Task 1:

Write a program to print first 10 multiple of 7
714212835 ... 70

## Task 2:

Write a program to print 1-100 all numbers divisible by 3 or 7
36791214151821242728 ...

## Task 3:

Write a program to print 1-100 all numbers divisible by 3 and 7
21426384

## Task 4:

Write a program to calculate factorial of any number.
Factorial of 3 is: $3 * 2 * 1=6$ and factorial of 5 is $5 * 4 * 3 * 2 * 1=120$
Hint: Similar to sum program discussed in class and lecture notes 10

## Task 5:

Write a program similar to one discussed in lecture notes 10. Modify this program to give output like this:
$1+2+3+4+5+6+7+8+9+10=55$
Note you must not hard code this program. Write program using loop and having user input. Above output is for input 10, if input is 5 , output should be
$1+2+3+4+5=15$

## Task 6:

Write a program to print square of first ten positive numbers?
149162536496481100
Give distance between numbers so that squares can be distinguished
Task 7:

| Write a program to show output as given on right hand side. Use the idea of printing stars given in lecture 10. Instead of stars uses space, also replace character star with character star, finally write following line inside loop to print pattern. System.out.println(spaces+i); |  |
| :---: | :---: |

Task 8:
Write a program to generate 2 random numbers n 1 and n 2 in range 1 to 5 . Display n and check if both are equal, show message "Same number generated again, Let me try again." generate $n 2$ again and check if same number generated again, show message "Sorry same number again." otherwise show second number?

See Assignment 1 in <br>printsrv and on web page to be evaluated in the coming lab.

## BEST of LUCK

