

C++ Repetition Program (Lecture Activities)

Group Works

Exercise 1 (10 min)

Write a program that **reads** 10 (arbitrary) integers and **prints** the smallest one, **using for loop**.

Exercise 2 (5 min)

Repeat exercise 2 **using While loop**.

Exercise 3 (5 min)

Write a program that **print** the following shape **using Do..While loop**.

```
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**
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```

Exercise 4 (10 min)

Write a program that **prints** the below multiplication table. **Use nested loops**.

```
  1  2  3  4  5  6
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1* | 1  2  3  4  5  6
2* | 2  4  6  8 10 12
3* | 3  6  9 12 15 18
4* | 4  8 12 16 20 24
5* | 5 10 15 20 25 30
6* | 6 12 18 24 30 36
```

Exercise 5 (15 min)

Write a program that **reads** a positive integer **n**, and **computes** and **print** the factorial of n. *The factorial of a non-negative integer n, denoted by n! is the product of all positive integers less than or equal to n. For example: 5! = 5 * 4 * 3 * 2 * 1 = 120.*

Note that the program should also **print** a suitable message when n is negative and do not continue the computation. **Use break statement in loops**.