

CS-200: Programming I
Fall 2017
Northeastern Illinois University
PLTL: Week of 10/03/17
Looping/Methods

Problem #1

- Write a program that has the class name Problem1 and that has the main method.
- Prompt the user to enter int n less than 20
- Create new method named powerBaseTwo which takes int as a parameter and returns an int. The program should also print the result. You may not use Math.pow method and you can only use decrementation operators.
- Create a third method named isDivByFive which takes int as parameter and returns void. This method should check if the answer printed in powerBaseTwo method is divisible by 4. If it is, then print the quotient. If is it not, then print -1.
- Several sample runs are provided for you below. Your output must be formatted **exactly** like the sample runs below.

```
Enter int (<20): 9
512
128
```

```
Enter int (<20): 8
256
64
```

```
Enter int (<20): 0
1
-1
```

Problem #2

- Write a program that has the class name Problem2 and that has the main method.
- Prompt the user to enter 5 integers.
- Create a second method named sumEveryDigit which takes an int as a parameter and returns an int. This method should sum every digit in all of the integers enter by the user then return the sum.
- The total sum from every digit entered should be printed.
- Several sample usages are provided for you below. Use the sample usages in the main method to test your code.

```
Enter 5 Integers: 1 2 3 4 5
15
```

```
Enter 5 Integers: 0 0 0 0 1234
10
```