

CS103 Homework 2

1. Write a program that prompts the user to input three integer values and find the greatest value of the three values. Note: Be careful when handling equal values.
2. Write a program that finds the largest and smallest of four integers entered by user.

Enter four integers: 21 43 10 35

Largest: 43

Smallest: 10

3. Write a program that checks if entered year is a leap year. (A leap year is a multiple of 4, and if it is a multiple of 100, it must also be a multiple of 400.)
4. Write the program that converts a numerical grade into a letter grade. The scale is as following: 90-100 -> A, 80-89 -> B, 70-79 -> C, 60-69 -> D, 0 - 59 -> F. If the entered number is larger than 100 or less than 0, give some error message as output.

OUTPUT:

Enter a numerical grade: 81

Letter grade: B

5. Write a program that will let the user enter the number and then it will output "even" if the number is even, and "odd" if the number is odd.

EXAMPLE OUTPUT 1:

Enter the number: 369

The number is odd.

EXAMPLE OUTPUT 2:

Enter the number: 866

The number is even.

6. Write a program that will prompt user to enter a 4 digits integers and separate integer into digits.
7. Write a program that prompts the user to enter an integer and checks whether the number is divisible by both 5 and 6, or neither of them, or just one of them. Here are some sample outputs for inputs 10, 30, 23.

EXAMPLE OUTPUT 1:

Enter the number: 10

10 is divisible by 5 or 6, but not both.

EXAMPLE OUTPUT 2:

Enter the number: 30

30 is divisible by both 5 and 6

EXAMPLE OUTPUT 3:

Enter the number: 23

23 is not divisible by neither 5 or 6.