Write a program that reads three integers from the user and prints out the maximum value among those three integers.

**Hint:** Use a nested if loop. You may find the program on pp. 224 useful.

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| **Sample Outputs for Question 1:**Enter an integer value: 4Enter an integer value: 5Enter an integer value: -2Maximum value: 5 |

**Source code for Question 1:**

**<INSERT HERE>**

**Output for Question 1:**

**<INSERT HERE>**

Write a program that takes a positive number as input and then calculate the sum of its digits. For instance, if the number is 295810, the sum of digits is 25(2+9+5+8+1+0).

**Hint:** You may find the program on pp. 277 useful. You may also find simple arithmetic operators / (division) and % (remainder) helpful to get each digit of a positive integer.

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| **Sample Outputs for Question 2:**Enter a positive integer: 295810The sum of digits is 25. |

**Output for Question 2:**

**<INSERT HERE>**

**Source code for Question 2:**

**<INSERT HERE>**

Create a number guessing game program. The program should utilize a random number generator of type integer between 1 and 10. Call this variable secretNumber. The program should allow users to enter a number in order to guess what the secret number is. If the guessed number is greater than the secretNumber, the program should display the message "Guess Lower!". If the guessed number is lower than the secretNumber, the program should display the message "Guess Higher!". **The program needs to run until the user correctly guesses the secretNumber.** When the user guesses the number correctly, the program should display the message "You got it right! You win!". Otherwise, the program displays the message "Sorry, incorrect number. Guess again."

**Hint:** Use a while loop. You may find the program on pp. 222 useful.

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| **Sample Outputs for Question 3:**Guessing game begins!Enter your guess number: 9Guess Lower!Enter your guess number: 3Guess Higher!Enter your guess number: 5You got it right! You win! |

**Source code for Question 3:**

**<INSERT HERE>**

**Output for Question 3:**

**<INSERT HERE>**