1. Take three numbers from the user and print the greatest number.

Test Data

Input the 1st number: 25

Input the 2nd number: 78

Input the 3rd number: 87

Expected Output:

The greatest: 87

2. Write a Java program that takes a number from the user between 1 and 7 and displays the name of the weekday.

Test Data

Input number: 3

Expected Output: Wednesday

3. Write a Java program to find the number of days in a month.

Test Data

Input a month number: 2

Input a year: 2016

Expected Output:

February 2016 has 29 days

4. Write a Java program that reads an integer and check whether it is negative, zero, or positive.

Test Data

Input a number: 7

Expected Output :

Number is positive

5. Write a Java program that takes the user to provide a single character from the alphabet. Print Vowel or Consonant, depending on the user input. If the user input is not a letter (between a and z or A and Z), or is a string of length > 1, print an error message.

*Test Data*

Input an alphabet: p

*Expected Output* :

Input letter is Consonant

6. Write a program in Java to input 5 numbers from keyboard and find their sum and average.

*Test Data*

Input the 5 numbers : 1 2 3 4 5

*Expected Output* :

Input the 5 numbers :   
1   
2   
3   
4   
5   
The sum of 5 no is : 15   
The Average is : 3.0

7. Make a program which displays an appropriate name for a person, using a combination of nested ifs and compound conditions. Ask the user for a gender, first name, last name and age.

If the person is female and 20 or over, ask if she is married. If so, display "Mrs." in front of her name. If not, display "Ms." in front of her name. If the female is under 20, display her first and last name.

If the person is male and 20 or over, display "Mr." in front of his name. Otherwise, display his first and last name.

Note that asking a person if they are married should *only* be done if they are female and 20 or older, which means you will have a single if and else nested inside one of your if statements.

What is your gender (M or F): F  
First name: Kim  
Last name: Kardashian  
Age: 32   
Are you married, Kim (y or n)? y  
Then I shall call you Mrs. Kardashian.

What is your gender (M or F): F  
First name: Marisa  
Last name: Tomei  
Age: 48   
Are you married, Marisa (y or n)? n  
Then I shall call you Ms. Tomei.

Notice that in the example below, we *never even ask the marriage question*, because she is under 20 and so her marital status doesn't change what we call her.

What is your gender (M or F): F  
First name: Chloe  
Last name: Moretz  
Age: 16   
  
Then I shall call you Chloe Moretz.

What is your gender (M or F): M  
First name: Daniel  
Last name: Radcliffe  
Age: 23   
Then I shall call you Mr. Radcliffe.

What is your gender (M or F): M  
First name: Zachary  
Last name: Gordon  
Age: 15   
Then I shall call you Zachary Gordon.

8. Make a program which plays a simple game of 2 Questions. The first question should be "animal, vegetable, or mineral?" Then, the second question should be "is it bigger than a breadbox?" Then, display one of six possible responses, depending on their answers. You can choose what answers to give for each of the six possibilities.

Here's a suggestion:

|  |  |  |  |
| --- | --- | --- | --- |
| size \ type | animal | vegetable | mineral |
| smaller than a breadbox | squirrel | carrot | paper clip |
| bigger than a breadbox | moose | watermelon | Camaro |

You will use *nested* if statements to do this.

TWO QUESTIONS!  
Think of an object, and I'll try to guess it.  
  
Question 1) Is it animal, vegetable, or mineral?  
> animal  
  
Question 2) Is it bigger than a breadbox?  
> no  
My guess is that you are thinking of a mouse.  
I would ask you if I'm right, but I don't actually care.

TWO QUESTIONS!  
Think of an object, and I'll try to guess it.  
  
Question 1) Is it animal, vegetable, or mineral?  
> mineral  
  
Question 2) Is it bigger than a breadbox?  
> yes  
My guess is that you are thinking of a truck.  
I would ask you if I'm right, but I don't actually care.

TWO QUESTIONS!  
Think of an object, and I'll try to guess it.  
  
Question 1) Is it animal, vegetable, or mineral?  
> vegetable  
  
Question 2) Is it bigger than a breadbox?  
> yes  
You're thinking of a pumpkin!  
I would ask you if I'm right, but I don't actually care.