1. Write Java program to allow the user to input his/her age. Then the program will show if the person is eligible to vote. A person who is eligible to vote must be older than or equal to 18 years old.

Example to read from the console -

Scanner scanner = new Scanner(System.in); String input = scanner.nextLine();

2. Given three ints – a, b, c return true if it is possible to add two of the ints to get the third.

twoAsOne(1, 2, 3) → true  
 twoAsOne(3, 1, 2) → true  
 twoAsOne(3, 2, 2) → false

3. Write Java program to prompt the user to choose the correct answer from a list of answer choices of a question.

The user can choose to continue answering the question or stop answering it. See the example below:

What is the command keyword to exit a loop in Java?

a. int

b. continue

c. break

d. exit

Enter your choice: b

Incorrect!

Again? press y to continue:

4. Write a Java program that takes a number from the user and generates an integer between 1 and 7 and displays the name of the weekday.

*Test Data*  
Input number: 3   
*Expected Output* : Wednesday

5. Write a Java program to print ‘n’ natural numbers and print the sum of them

E.g. – Print 5 natural numbers

**1**

**2**

**3**

**4**

**5**

**Sum = 15**

6. Write a Java to produce the output shown below:

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7. Write a Java program to sum values of an int array. Assume a fixed length of 10 elements.

**int numbers[5]={5,10,15,20,25};**

**Sum = 75;**

8. Extend the previous problem and now write a Java program to calculate the average value of array elements.

**int age[5]={21,22,23,24,25};**

**int ageAverage = 23;**

10. Write a Java program to find the duplicate values of an array of string.

String values[8]={“Hello”,”how”,”are”,”tell”,“how”,”is”,“was”,”are”};

Duplicate strings are – how, are

11. Write a Java program to compare a given string to the specified character sequence.

Input “does this contain a sequence “;

Check if there is a word “this” in the sentence

12. Write a Java method to count all words in a string

Input: The quick brown fox jumps over the lazy dog.

Output: 9

13. Write a Java method to display the middle character of a string  
Note: a) If the length of the string is even there will be two middle characters.  
b) If the length of the string is odd there will be one middle character.  
  
Input a string: 350

Output : 5

14. Given a string, return a string where for every char in the original, there are two chars.

doubleChar("The") → "TThhee"  
doubleChar("AAbb") → "AAAAbbbb"  
doubleChar("Hi-There") → "HHii--TThheerree

15. Given 3 integers day, month and year, validate if it is a valid date. Then provide the day of the week for that date.

**Input** - 08 05 2017

**Output** – Valid date. Day is MONDAY

16. Write a Java program to remove all the palindrome words from the given sentence

**Input –** This contains malayalam and level words

**Output –** This contains and words