

1. Write a program which will greet you with your name.
2. Write a program which will print greeting message for your 5 friends. Friends name should be entered as command line arguments.
3. Write a program which will print properties like size, min-value and max-value of each primitive number types in java.(Use appropriate wrapper class).
4. Write a program which will print result of student according to marks.like A grade – marks 90 to 100, B grade – marks 80 to 90, C grade- marks 60 to 80.D grade – marks 45 to 60.E grade – marks 35 to 45. Fail – marks below 35.(Use Else-if ladder).
5. Write a program which demonstrate conditional operator, compound assignment operator, pre-post increment and decrement operator, bitwise operator, logical short circuit operator.
6. Write a program to print first N prime numbers.
7. Write a program which will create an array of integers and perform following operation:
 - 1) Sum 2) product 3) Numbers divisible by 15 4) Maximum Value
 - 5) Minimum Value 6) Sort
8. Write an interactive program to print a string entered in a pyramid form. For instance, the string “stream” has to be displayed as follows:

```
S
St
Str
Stre
Strea
Stream
```
9. Print following diamond pattern :

```

      *
    * *
  * * *
* * * *
  * * *
    * *
      *

```

10. Write a program to accept a line and check how many consonants and vowels are there in line.

11. Write a program to count the number of words that start with capital letters.

12. Create a class which ask the user to enter a sentence, and it should display count of each vowel type in the sentence. Display the total count of each vowel and digits for all sentences.

13. Write a program which will perform following functionality on String:
 a) convert to uppercase b) convert to lowercase c) count total words d) substring e) If String ends with Java then concat standardEdition to it f) trim g) string length h) Check weather two strings are equal or not.

14. Perform addition and multiplication of two matrix.

15. Write a program which will overload method calculateArea which calculates area of different shapes like circle, rectangle and square.

16. Write a program which will demonstrate the java.util.Arrays class methods like sort, copyOf, copyOfRange, fill, binarySearch, equals, toString etc..

17. Write a program which will make calculator application. Use Math class methods like pow, abs, max, min, exp, log, sqrt, cbrt, sin etc...