Assignment 1

CSD 207 Shiv Nadar University

Professor Sulabh Bansal

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Github Repository: https://github.com/rhnvrm/java_learn (Update after deadline of Assignment 1)

```
/*
1
232
34543
4567654
567898765
67890109876
7890123210987
890123454321098
90123456765432109
0123456789876543210
Done
Author: Rohan Verma (hello@rohanverma.net)
           rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eighteen
11
         232
        34543
       4567654
      567898765
     67890109876
    7890123210987
   890123454321098
  90123456765432109
 0123456789876543210
 123456789010987654321
 rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class eighteen {
        public static void main( String [] args )
                int n, c, d, num = 1, space;
                Scanner s = new Scanner(System.in);
                n = s.nextInt();
                space = n - 1;
                for (d = 1; d \le n; d++)
```

num = d;

for (c = 1 ; $c \le space$; c++)

}

```
/*
```

Write a program that simulates flipping a coin one million times and displays the number of heads and tails.

```
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac eight.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 500389
Tails: 499611
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 500026
Tails: 499974
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 500015
Tails: 499985
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 499859
Tails: 500141
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 499977
Tails: 500023
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eight
Heads: 500001
Tails: 499999
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
```

```
import java.util.Scanner;
public class eight {
        public static void main( String [] args )
                int FLIPS = 10000000;
                int heads = 0, tails = 0, coin;
                for(int i = 0; i < FLIPS; i++){</pre>
                         coin = (int)((Math.random() > 0.5)?1:0);
                         if(coin == 0) heads++;
                         else tails++;
                }
            System.out.println("Heads: " + heads);
            System.out.println("Tails: " + tails);
        }
}
```

```
/*
```

A solution to find the greatest common divisor of two integers n1 and n2 is as follows: First find d to be the minimum of n1 and n2, then check whether d, d-1, d-2, 2, or 1 is a divisor for both n1 and n2 in this order. The first such common divisor is the greatest common divisor for n1 and n2. Write a program that prompts the user to enter two positive integers and displays the gcd.

```
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac eleven.java
jarohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
25 15
HCF: 5
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
30 6
HCF: 6
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
7 7
HCF: 7
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
13 57
HCF: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
13 course/a/1$ java eleven
13 for homogrohan-K53SV:~/projects/monsoon/java/course/a/1$ java eleven
13 for homogrohan-K53SV:~/projects/monsoon/java/course/a/1$ ]
```

```
*/
import java.util.Scanner;

public class eleven {
    public static int hcf(int a, int b){
        int min = (a>b)?b:a;

        for(int i = min; i >= 1; i--){
            if(a % i == 0 && b % i == 0){
                return i;
            }
        return -1;
    }

    public static void main( String [] args )
    {
        int a, b;
        //Scanner
        Scanner s = new Scanner(System.in);
}
```

```
a = s.nextInt();
b = s.nextInt();
System.out.println("HCF: " + hcf(a,b));
}
```

```
/*
```

Write a program to read an integer and reverse it.

```
Author: Rohan Verma (hello@rohanverma.net)

x - □ rohan@rohan-K535V:~/projects/monsoon/java/course/a/1

rohan@rohan-K535V:~/projects/monsoon/java/course/a/1$ java fifteen.java
rohan@rohan-K535V:~/projects/monsoon/java/course/a/1$ java fifteen

12345
rohan@rohan-K535V:~/projects/monsoon/java/course/a/1$ java fifteen

112233

332211
rohan@rohan-K535V:~/projects/monsoon/java/course/a/1$ 

*/
import java.util.Scanner;

public class fifteen {

    public static void main( String [] args )
    {
```

```
import java.util.Scanner;

public class fifteen {
    public static void main( String [] args )
    {
        int num;
        Scanner s = new Scanner(System.in);
        num = s.nextInt();
        int rev = 0;
        while(num != 0){
            rev *= 10;
            rev += num % 10;
            num /= 10;
        }
        System.out.println(rev);
    }
}
```

```
/*
Write a program that prompts the user to enter
a decimal integer and displays its
corresponding binary value.
Don't use Java's Integer.toBinaryString(int)
in this program.
Author: Rohan Verma (hello@rohanverma.net)
 x - rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac five.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java five
Enter the center coords and radii of circle 1 then circle 2 respectively:
0 0 5
0 0 7
Circle 1 is inside Circle 2.
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java five
Enter the center coords and radii of circle 1 then circle 2 respectively:
0 0 7
0 0 5
Circle 2 is inside Circle 1.
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java five
Enter the center coords and radii of circle 1 then circle 2 respectively:
-1 -1 5
1 1 5
Circle 2 overlaps Circle 1.
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java five
Enter the center coords and radii of circle 1 then circle 2 respectively:
0.5 0.5 5
0 0 2.5
Circle 2 is inside Circle 1.
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class five {
        public static void main( String [] args )
            double x1, y1, r1, x2, y2, r2;
            //Scanner
            Scanner s = new Scanner(System.in);
            System.out.println("Enter the center coords and radii of circle 1
then circle 2 respectively: ");
               x1 = s.nextDouble();
                v1 = s.nextDouble();
                r1 = s.nextDouble();
                x2 = s.nextDouble();
```

double distance = Math.pow((x1 - x2) * (x1 - x2) + (y1 - y2) *

y2 = s.nextDouble();
r2 = s.nextDouble();

Write a program to find out the L.C.M. and H.C.F. of two numbers.

```
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac four.java
jarohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java four
6 24
LCM: 24
HCF: 6
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java four
LCM: 60
HCF: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java four
13 8
LCM: 104
HCF: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java four
6 21
LCM: 42
HCF: 3
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class four {
        public static int hcf(int a, int b){
                if (b == 0) {
                        return a;
                else {
                        return hcf(b, a % b);
                //return -1;
        }
        public static int lcm(int a, int b){
```

return (a*b)/hcf(a,b);

public static void main(String [] args)

Scanner s = new Scanner(System.in);

}

int a, b;

//Scanner

```
a = s.nextInt();
b = s.nextInt();

System.out.println("LCM: " + lcm(a,b));
System.out.println("HCF: " + hcf(a,b));
}
}
```

```
/*
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac fourteenpointa.jav-
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointa
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointa
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class fourteenpointa {
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                num = s.nextInt();
                for(int i = 0; i < num; i++){</pre>
                        for(int j = 0; j < num; j++){
                                System.out.print('*');
                        System.out.print('\n');
                }
        }
}
```

```
/*
Author: Rohan Verma (hello@rohanverma.net)
 x - 
rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac fourteenpointb.jav-
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointb
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointb
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class fourteenpointb {
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                num = s.nextInt();
                for(int i = 0; i < num; i++){</pre>
                        for(int j = num - i - 1; j < num; j++){
                                System.out.print('*');
                        System.out.print('\n');
                }
        }
}
```

```
/*
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac fourteenpointc.jav
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
    ****
    ***
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class fourteenpointc {
       public static void main( String [] args )
               int num;
               Scanner s = new Scanner(System.in);
               num = s.nextInt();
               for(int i = 0; i < num; i++){</pre>
                      for(int j = i; j < num; j++){
```

```
System.out.print('*');
}
System.out.print('\n');
}
}
```

```
/*
Write a program that prompts the user to
enter the number of seconds, displays a message at
every second, and terminates when the time expires.
Author: Rohan Verma (hello@rohanverma.net)
 x − □ rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac nine.java
javarohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java nine
Max Number: 3
     Count: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java nine
3 4 5 5 4 3 5 0
Max Number: 5
     Count: 3
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class nine {
        public static void main( String [] args )
        {
                int num, max = Integer.MIN_VALUE, count = 0;
                Scanner s = new Scanner(System.in);
                do{
                        num = s.nextInt();
                        if(max == num){
                                 count += 1;
                        else if(max < num){</pre>
                                 count = 1;
                                 max = num;
```

else{

```
}

} while(num != 0);

System.out.println("Max Number: " + max);
System.out.println(" Count: " + count);
}
```

/*

In a strong number, the sum of the factorials of digits of a number is equal to the original number. Write a program to check given number is strong number or not.

```
x - □ rohan@rohan-K535V:~/projects/monsoon/java/course/a/1$ java nineteen
145
145 is a strong number
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java nineteen
23
23 is not a strong number
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java nineteen
27
28
29 is not a strong number
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
```

```
*/
import java.util.Scanner;

public class nineteen {
    public static void main( String [] args )
    {
        int num;
        Scanner s = new Scanner(System.in);
        num = s.nextInt();
        int temp = num,i,f,r,sum=0;
        while(num!=0){
            i=1;f=1;
            r=num%10;
        while(i<=r){
            f=f*i;
        }
}</pre>
```

/*

Write a program that reads three edges for a triangle and determines whether the input is

valid. The input is valid if the sum of any two edges is greater than the third edge.

```
x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac one.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java one
The input was invalid!
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java one
The input was invalid!
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java one
The input was valid!
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class one {
        public static void main( String [] args )
        {
            // Input edge lengths of a b c
            int a,b,c;
            //Scanner
            Scanner s = new Scanner(System.in);
            a = s.nextInt();
            b = s.nextInt();
            c = s.nextInt();
            //Calculate sums
            int x = a + b;
            int y = b + c;
            int z = c + a;
            if(x > c \&\& y > a \&\& z > b){
                System.out.println("The input was valid!");
            }
            else{
                System.out.println("The input was invalid!");
            }
        }
}
```

```
/*
Write a program that prompts the user to enter a decimal integer and displays its corresponding hexadecimal value.
Don't use Java's Integer.toHexString(int) in this program.

Author: Rohan Verma (hello@rohanverma.net)

x - □ rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1

rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac seven.java rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven 128

Hex: 80
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven 64

Hex: 40
```

```
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
Hex: 40
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
63
Hex: 3F
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
Hex: 17
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
112
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
232
Hex: E8
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class seven {
        public static String reverse(String source){
        if(source == null || source.isEmpty()){
            return source;
        String reverse = "";
        for(int i = source.length() -1; i \ge 0; i --){
            reverse = reverse + source.charAt(i);
        }
        return reverse;
        public static String convert(int dec)
        {
            String hex = "";
            while(dec != 0){
                int remainder = dec % 16;
```

```
if(remainder > 9){
    char x='e';
    remainder -= 10;
                 switch(remainder){
                          case 0:
                                    x = 'A';
                                   break;
                          case 1:
                                   x = 'B';
                                   break;
                          case 2:
                                   x = 'C';
                                   break;
                          case 3:
                                   x = 'D';
                                   break;
                           case 4:
                                   x = 'E';
                                   break;
                          case 5:
                                   x = 'F';
                                   break;
                 }
                 hex += x;
        else{
                          hex += (char)(remainder + 48);
        dec /= 16;
    return reverse(hex);
}
public static void main( String [] args )
    int num;
    Scanner s = new Scanner(System.in);
    num = s.nextInt();
    System.out.println("Hex: " + convert(num));
}
```

```
/*
```

An Armstrong number is one in which the sum of the cubes of digits of a number is equal to $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2}$

the original number. Write a program to check given number is Armstrong number or not.

For example: $n=153 \Rightarrow 1 \ 3 + 5 \ 3 + 3 \ 3 = 1 + 125 + 27 = 153$, so 153 is an Armstrong number.

rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1

```
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seventeen
The number 153 is an armstrong number
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seventeen
It is not an armstrong number!
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class seventeen {
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                num = s.nextInt();
                int sum = 0;
                int temp = num;
                while(num != 0){
                        sum += Math.pow((num%10),3);
                        num/=10;
                if(sum == temp){
                        System.out.println("The number "+ temp + " is an
armstrong number");
                else
                        System.out.println("It is not an armstrong number!");
        }
```

```
/*
Write a program that prompts the user to enter
a decimal integer and displays its
corresponding binary value.
Don't use Java's Integer.toBinaryString(int)
in this program.
Author: Rohan Verma (hello@rohanverma.net)
 x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac six.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java six
10
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java six
Binary: 1100100
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java six
Binary: 100000
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java six
Binary: 1000001
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java six
234
Binary: 11101010
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class six {
        public static int convert(int dec)
        {
            if (dec == 0)
            {
                return 0;
            }
            else
            {
                return (dec % 2 + 10 * convert(dec / 2));
            }
        }
        public static void main( String [] args )
        {
            int num;
```

Scanner s = new Scanner(System.in);

num = s.nextInt();

```
System.out.println("Binary: " + convert(num));
}
```

```
/*
Write an interactive program that will convert a positive integer
quantity to a roman numeral
(e.g., 12 will be converted to XII, 14 will be converted to XIV,
and so on). Design the
program so that it will execute repeatedly, until a value of zero
is read in from the keyboard.
Author: Rohan Verma (hello@rohanverma.net)
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac sixteen.java-
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java sixteen
12
Roman numeral: XII
32
Roman numeral: XXXII
65
Roman numeral: LXV
Roman numeral: CDLIV
899
Roman numeral: DCCCXCIX
232
Roman numeral: CCXXXII
111
Roman numeral: CXI
*/
import java.util.Scanner;
public class sixteen {
        public static String IntegerToRomanNumeral(int input) {
            if (input < 1 || input > 3999)
                return "Invalid Roman Number Value";
            String s = "";
            while (input >= 1000) {
                s += "M";
                input -= 1000;
                                      }
            while (input >= 900) {
                s += "CM";
                input -= 900;
            while (input >= 500) {
                s += "D";
                input -= 500;
            while (input >= 400) {
                s += "CD";
                input -= 400;
            while (input >= 100) {
                s += "C";
                input -= 100;
            while (input >= 90) {
                s += "XC";
                input -= 90;
```

```
while (input >= 50) {
                s += "L";
input -= 50;
            while (input >= 40) {
                s += "XL";
                input -= 40;
            while (input >= 10) {
                s += "X";
                input -= 10;
            while (input >= 9) {
                s += "IX";
                input -= 9;
            while (input >= 5) {
                s += "V";
                input -= 5;
            while (input >= 4) {
                s += "IV";
                input -= 4;
            while (input >= 1) {
                s += "I";
                input -= 1;
            return s;
        }
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                do{
                         num = s.nextInt();
                         if(num!=0){
                                 System.out.println("Roman numeral: " +
IntegerToRomanNumeral(num));
                }while(num != 0);
        }
}
```

```
/*
Write a program that prompts the user to
enter the number of seconds, displays a message at
every second, and terminates when the time expires.
Author: Rohan Verma (hello@rohanverma.net)
```

```
x - \( \propio \) rohan@rohan-K53SV: \( \rangle \) projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac ten.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java t
       three two
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java ten
Enter the number of seconds: 5
Seconds Left: 5
Seconds Left: 4
Seconds Left: 3
Seconds Left: 2
Seconds Left: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ 2
2: command not found
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java ten
Enter the number of seconds: 2
Seconds Left: 2
Seconds Left: 1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
```

```
import java.util.*;

public class ten {

    public static void main( String [] args )
    {

        Scanner s = new Scanner(System.in);

        System.out.print("Enter the number of seconds: ");
        int sec = s.nextInt();

    while (sec > 0) {

        System.out.println("Seconds Left: " + sec);
        long start = System.currentTimeMillis();
        //wait till 1 sec \/

        while (start + 1000 > System.currentTimeMillis());
        sec--;
    }
}
```

```
/*
```

Write a program to determine input the marks of n students in a subject and determine the frequency count of marks obtained i.e. how many students obtained 100, how many 99, how many 98 and so on up to 0.

```
x - \( \pi \) rohan@rohan-K53SV: \( \rangle \) projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java thirteen
Enter Marks: (-1 to exit)
94
23
43
23
94
67
57
77
34
43
43
34
Marks' frequency:
23: 2
34: 2
43: 3
57: 1
67: 1
77: 1
94: 3
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class thirteen {
        public static void main( String [] args )
        {
```

Write a program to find out sum of digits of a given number.

```
x - a rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac three.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java three
54321
The sum of digits of given number is: 15
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java three
11111
The sum of digits of given number is: 5
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java three
The sum of digits of given number is: 10
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java three
The sum of digits of given number is: 17
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class three {
        public static void main( String [] args )
            int num, sum;
            //Scanner
            Scanner s = new Scanner(System.in);
            num = s.nextInt();
            sum = 0;
            while(num != 0){
                //add remainder from num
                sum += num % 10;
                num /= 10;
            System.out.println("The sum of digits of given number is: " + sum);
        }
}
```

Write a program to input a set of integers and count the number of primes.

```
Author: Rohan Verma (hello@rohanverma.net)
       □ rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac twelve.java
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twelve
Enter number of vars: 10
# of Primes 5
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twelve
Enter number of vars: 5
13
11
# of Primes 5
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class twelve {
        public static boolean isPrime(int num) {
        if (num == 2 ) return true;
        if (num % 2 == 0) return false;
        for (int i = 3; i * i <= num; i += 2)</pre>
            if (num % i == 0) return false;
        return true;
        public static void main( String [] args )
            int num, vars, count = 0;
            //Scanner
            Scanner s = new Scanner(System.in);
            System.out.print("Enter number of vars: ");
            vars = s.nextInt();
            while(vars-- != 0){
                if(isPrime(num = s.nextInt())){
                        count+=1;
                }
```

```
System.out.println("# of Primes " + count);
}
```

```
/*
```

Write a program to generate multiplication tables for 1 ,2, \dots , 10. Each table up to 10

```
Author: Rohan Verma (hello@rohanverma.net)
        □ rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twenty
4 \times 0 = 0
4x1=4
4x2=8
4x3=12
4x4=16
4x5=20
4x6=24
4x7=28
4x8=32
4x9=36
4x10=40
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twenty
44
44x0=0
44x1=44
44x2=88
44x3=132
44x4=176
44x5=220
44x6=264
44x7=308
44x8=352
44x9=396
44×10=440
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
*/
import java.util.Scanner;
public class twenty {
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                num = s.nextInt();
                for(int i = 0; i \le 10; i++){
                         System.out.println(num + "x" + i + "=" + num*i);
                }
        }
}
```

```
/*
Write a program to generate multiplication tables for 1 ,2, ..., 10. Each table
up to 10
Modify (20) so that your output now looks like this:
2x1=2 3x1=3 ... 5x1=5
2x2=4 3x2=6 ... 5x2=10
2x10=20 3x10=30 ... 5x10=50
Author: Rohan Verma (hello@rohanverma.net)

    rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1

rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twentyone
5x0=0
        6x0=0
                7 \times 0 = 0
                        8 \times 0 = 0
                                 9x0=0
5x1=5
        6x1=6
                7x1=7
                        8x1=8
                                 9x1=9
5x2=10 6x2=12
                7x2=14
                        8x2=16
                                 9x2=18
5x3=15 6x3=18 7x3=21 8x3=24 9x3=27
5x4=20 6x4=24 7x4=28 8x4=32
                                9x4=36
5x5=25
       6x5=30
               7x5=35
                        8x5=40
                                9x5 = 45
5x6=30 6x6=36 7x6=42
                        8x6=48
                                9x6=54
                        8x7=56
5x7=35 6x7=42 7x7=49
                                 9x7=63
5x8=40 6x8=48 7x8=56 8x8=64 9x8=72
5x9=45 6x9=54 7x9=63 8x9=72
                                 9x9 = 81
5x10=50 6x10=60 7x10=70 8x10=80 9x10=90
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twentyone
2 \times 0 = 0
        3x0=0
                4x0=0
                        5x0=0
                                 6x0 = 0
2x1=2
       3x1=3
                4 \times 1 = 4
                        5x1=5
                                 6x1=6
2x2 = 4
        3x2=6
                4x2=8
                        5x2=10 6x2=12
2x3=6
        3x3=9
                4x3=12 5x3=15 6x3=18
        3x4=12 4x4=16 5x4=20
                                 6x4=24
2x5=10
        3x5=15 4x5=20
                        5x5=25
                                 6x5=30
2x6=12 3x6=18 4x6=24 5x6=30
                                6x6=36
2x7=14 3x7=21
                4x7 = 28
                        5x7=35
                                 6x7=42
2x8=16
        3x8=24
                4x8 = 32
                        5x8=40
                                 6x8=48
                4x9=36
                        5x9=45
2x9=18
        3x9 = 27
                                 6x9=54
2x10=20 3x10=30 4x10=40 5x10=50 6x10=60
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
public class twentyone {
        public static void main( String [] args )
                int num;
                Scanner s = new Scanner(System.in);
                num = s.nextInt();
                for(int i = 0; i \le 10; i++){
```

```
System.out.print(num + "x" + i + "=" + num*i);
System.out.print('\t');
System.out.print(num+1 + "x" + i + "=" + (num+1)*i);
System.out.print('\t');
System.out.print(num+2 + "x" + i + "=" + (num+2)*i);
System.out.print('\t');
System.out.print(num+3 + "x" + i + "=" + (num+3)*i);
System.out.print('\t');
System.out.print(num+4 + "x" + i + "=" + (num+4)*i);
System.out.print('\n');
```

Write a program to print ASCII value of all characters.

```
Author: Rohan Verma (hello@rohanverma.net)
                     x - or rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
             ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac two.java
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java two
             ASCII VALUE CHART
               . 0),
00
01 1),
                                                                                                                 \begin{pmatrix} 0 & 0 \\ 0 & 2 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 2 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0
                                                                                                                                                                                                                                                                                                                                ( 16 ), ( 18 ), ( 18 ), ( 18 ), ( 18 ), ( 14 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                     (00 17), (00 18), (00 4), (10 25), (10 26), (10 26), (4), (#, 35), ($, 36),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ( 19 ), ( 19 ), ( 19 ), ( 18 ), ( 18 ), ( 18 ), ( 18 ), ( 17 ), ( 18 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 ), ( 17 )
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( 1 0 0 28 ),
( 0 0 28 ),
( 0 0 28 ),
( 0 0 28 ),
                                                                                                                                                                                                                     (, 15), ([1, 23), (!, 33),
                            13),
21),
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(y, 118),
(se 128),
(se 138),
(se 148),
(se 148),
(se 158),
(se 168),
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(a) 127),
(b) 137),
(c) 147),
(c) 157),
(d) 157),
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(se 129),
(se 139),
(se 149),
(se 149),
(se 159),
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(se 130),
(se 140),
(se 150),
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(|, 134),
(|, 134),
(|, 144),
(|, 154),
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(), 135),
(), 145),
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(00 133),
(00 143),
(00 153),
(00 153),
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(°° 136),
(°° 136),
(°° 146),
(°° 156),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (", 168),
(2, 178),
                                                                                                                                                                                                                                                                                                                                                                                                                         (,, 184),
(Â, 194),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            200)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Ï, 207),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Î, 206),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (×, 215),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Ü, 220)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ë, 235),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (÷, 247).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ø, 248).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ú, 250).
               û, 251), (û, 252), (ý, 253), (þ, 254), (ÿ, 255
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ÿ, 255)
  import java.util.Scanner;
```

```
public class two {
         public static void main( String [] args )
         {
                  System.out.println("ASCII VALUE CHART");
             for(int i = 0; i < 256; i++){
    System.out.print('(');</pre>
                           System.out.print((char)i);
                           System.out.print(", ");
                  System.out.print(i);
                  System.out.print("),
                  if(i % 10 == 0) System.out.print('\n');
             System.out.print('\n');
         }
}
```