## **Assignment 1**

CSD 207 Shiv Nadar University

Professor Sulabh Bansal

## **Submitted By:**

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Github Repository: <a href="https://github.com/rhnvrm/java\_learn">https://github.com/rhnvrm/java\_learn</a> (Update after deadline of Assignment 1)

```
/* Q 18.
Print the following pyramid
232
34543
4567654
567898765
67890109876
7890123210987
890123454321098
90123456765432109
0123456789876543210
Done
Author: Rohan Verma (<a href="mailto:hello@rohanverma.net">hello@rohanverma.net</a>)
Output:
            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++)
```

}

}

```
/* Q. Eight
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)
Output:
 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);
        }
}
```

```
/* Q. Eleven
```

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.

Author: Rohan Verma (<a href="hello@rohanverma.net">hello@rohanverma.net</a>)
Output:

```
x - □ 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$ 
□ rohan@rohan-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));
}
```

```
/* Q 15
Write a program to read an integer and reverse it.
Author: Rohan Verma (hello@rohanverma.net)
Output:
           rohan@rohan-K53SV: ~/ projects/monsoon/java/course/a/1
 x - 0
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac fifteen.java
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fifteen
54321
12345
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fifteen
112233
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
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);
        }
}
```

```
/* Q 5
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 (<a href="mailto:hello@rohanverma.net">hello@rohanverma.net</a>)
Output:
 x - 0
            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
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();
                y1 = s.nextDouble();
                r1 = s.nextDouble();
                x2 = s.nextDouble();
                y2 = s.nextDouble();
                r2 = s.nextDouble();
```

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

(y1 - y2), 0.5);

if (r2 >= r1 && distance <= (r2 - r1)){
    System.out.println("Circle 1 is inside Circle 2.");
}
else if (r1 >= r2 && distance <= (r1 - r2)) {
    System.out.println("Circle 2 is inside Circle 1.");
}
else if (distance > (r1 + r2)){
    System.out.println("Circle 2 does not overlap Circle 1.");
}
else {
    System.out.println("Circle 2 overlaps Circle 1.");
}
```

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

```
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
12 5
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 )
            int a, b;
            //Scanner
            Scanner s = new Scanner(System.in);
```

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

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

}
```

```
/* Q. 14.A
Author: Rohan Verma (hello@rohanverma.net)
          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++){
                       System.out.print('\n');
               }
       }
}
```

```
/* Q 14.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 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>
                      System.out.print('\n');
               }
       }
}
```

```
/* Q 14.C
Author: Rohan Verma (<a href="mailto:hello@rohanverma.net">hello@rohanverma.net</a>)
Output:
 x - chan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac fourteenpointc.jav
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
   ****
     ww.
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
    ****
 ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java fourteenpointc
       ww.
 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();
```

```
/* Q 9
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)
Output:
           rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
 x - 0
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ javac nine.java
javarohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java nine
1 2 3 0
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);
}
}
```

```
/* Q 19
```

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.

Author: Rohan Verma (<a href="hello@rohanverma.net">hello@rohanverma.net</a>)

```
Output:

X - □ rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1
rohan@rohan-K53SV:~/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$ ■
```

```
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;
        }
}
```

```
/* Q 1
```

Write a program that reads three edges for a triangle and determines whether the input is  $\frac{1}{2}$ 

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

```
Author: Rohan Verma (<a href="mailto:hello@rohanverma.net">hello@rohanverma.net</a>)
Output:
  × - -
            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
1 2 3
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!");
             }
        }
}
```

```
/* Q 7
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 (<a href="mailto:hello@rohanverma.net">hello@rohanverma.net</a>)
Output:
           rohan@rohan-K53SV: ~/projects/monsoon/java/course/a/1
 x - 0
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
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
Hex: 70
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java seven
232
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));
        }
}
```

```
/* Q 17
An Armstrong number is one in which the sum of the cubes of digits of a number
is equal to
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.
```

Author: Rohan Verma (<a href="hello@rohanverma.net">hello@rohanverma.net</a>)

```
Output:
           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!");
        }
}
```

```
/* Q6
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)
Binary: 1010
```

```
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
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
65
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);

```
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
454
Roman numeral: CDLIV
Roman numeral: DCCCXCIX
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);
        }
}
```

```
/* Q 10
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.
```

```
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--;
        }
        }
}
```

```
/* Q 13
```

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.

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 thirteen
Enter Marks: (-1 to exit)
94
94
23
43
23
94
67
57
77
34
43
43
34
-1
Marks' frequency:
1: 3
3: 3
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
The sum of digits of given number is: 15
rohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java three
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
908
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)
 x - a 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
1 2 3 4 5 6 7 8 9 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);
}
```

```
/* Q 20
```

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

```
x - a 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
44x10=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);
                }
        }
}
```

```
/* Q 21
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
ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$ java twentyone
5x0=0
        6x0=0
                7 \times 0 = 0
                        8x0 = 0
                                9x0=0
                7x1=7
5x1=5
       6x1=6
                        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
5x7=35 6x7=42 7x7=49
                        8x7=56 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
                        5x1=5
        3x1=3
                4 \times 1 = 4
                                6x1=6
2x2 = 4
       3x2=6
                4x2=8
                        5x2=10 6x2=12
2x3=6
       3x3=9
                4x3=12 5x3=15
                                6x3=18
2x4=8
        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
                                6x9 = 54
2x9=18
        3x9 = 27
                4x9=36
                        5x9=45
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();
```

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
               SCII VALUE CHART
               0),
01
1),
                                                                                                    \begin{pmatrix} 0 & 0 & 2 \\ 0 & z & 2 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 3 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 & 0 & 0 \\ 0 & z & 4 \end{pmatrix}, \begin{pmatrix} 0 &
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(es 129),
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(00 127),
(00 137)
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(°, 126),
(°) 136),
(°) 146),
(°) 156),
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(00 133),
(00 143),
(00 153),
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(|, 124),
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(|, 144),
(|, 154),
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(e) 135),
(e) 145),
(e) 155),
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( 00 147),
( 00 157),
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( 0 159 ),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (¥, 165),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (¦, 166),
(°, 176),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (", 168),
(2, 178),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (<sup>-</sup>, 175),
(<sup>1</sup>, 185),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           177),
187),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     179),
189),
                                                                                                                                                                                          172),
                                                                                                                                                                                                                                                                                                                                                                                                                                           (,, 184),
(Â, 194),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (Ç, 199)
(Ñ, 209)
                                                  191),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (Ï, 207),
                                                                                                                                               (Ô, 212),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (Ü, 220).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (å, 229),
                                                                                                                                               (Þ, 222),
                                                                                                                                               (è, 232),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ï, 239),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (î. 238).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ō, 245),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ö, 246),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (÷, 247),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ù, 249),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ø. 248).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ú. 250).
                                                                                                                                             (ü. 252).
                    ohan@rohan-K53SV:~/projects/monsoon/java/course/a/1$
import java.util.Scanner;
```