(58) write a program to find the number of composite numbers in an array of elements.

=

```
import java.util.Array;
import java.util.Scanner;
public class composite {
    public static void main (String[] args) {
    int[] arr = {16, 18, 27, 16, 28, 21, 193};
    int count = 0;
    for (int num: arr) {
        if (isComposite(num)) {
            coount++;
        }
    System.out.println (coant);
}
public static boolean isComposite (int num) {
    if (num<=1) return false;
for (int i=2; i<=math.sqrt(num); i++) {
    if (num%i==0) {
        return true;
    }
}
}
```

(34) find the nth odd num after n odd number.

```
import java.util.scanner;
public class findnth {
        public static void main (String args[]){
scanner input =new scanner (system.in);
int n = input.nextInt ();
int result = n*4-1;
system.out.println (" nth odd :" + result);
}
}
```

(35) write a program to find whether given char in string or not.

```
import java.util.scanner;
public findchar {
        public static void main (string args[]){
Scanner input = new Scanner (system.in);
String str = input.next line();
char c = input.next.charAt(0);
int index = -1;
for (int i=0 ; i< str.length; i++) {
```

```
if (str.charAt(i) == c) {
                index = i;
                break;
            }
        }
        if (index >= 0) {
            System.out.println("Found index:" + index);
            }
        else {
            System.out.println("not found");
            }
    }
}
```

(6) write a program to print the below pattern

:

```
import java.util.Scanner;
Public class numberpattern {
    public static void main (String args[]){
    Scanner input = new Scanner (System.in);
    Int n = input.nextInt();
    for ( int i=1; i<=2*n-1; i++) {
        Int num = i<=n ? i : 2*n-i;
    for ( int j=1; j<=num; j++) {
            System.out.println (num+" ");
    }
    System.out.println();
    }
}
```

(8) program to find given num is Armstrong or not.

```
import java.util.Scanner;
Public class Armstrong{
    public static void main (String args[]){
Scanner input = new Scanner (System.in);
Int n = input.nextInt();
Int arm = 0, num = n;
while (num > 0){
        int digit = num % 10;
        arm += digit * digit * digit;
        num /= 10;
    }
if (n == arm) {
        System.out.println ("Armstrong number");
    }
else{
        System.out.println ("not armstrong number");
    }
}
```

(38) write a program to arrange the letters of words alphabetically in reverse order.

:

```
import java.util.Scanner;
import java.util.Arrays;
public class main {
    public static void main (String args[]){
Scanner input = new Scanner (System.in);
char[] arr = input.next.toCharArray();
Arrays.sort (arr);
for (int i = arr.length-1 ; i>=0 ; i--) {
        System.out.println (arr[i] + " ");
    }
}
}
```

(39) write a program to remove the vocuels?

:

```
import java.util.Scanner;
public class Removevocuels{
    public static void main (String args[]){
Scanner Input = new Scanner (system.in);
String result = Input.next().replaceAll("[aeiouAEIOU]","");
System.out.println (result);
}
}
```

(40) write a program to print hollow square pattern?

:

```
import java.util.Scanner;
public class Hollow{
    public static void main (String[] args){
Scanner Input = new Scanner (system.in);
char c = input.next().charAt(0);
for (int i=1; i<=5; i++){
    for (int j=1; j<=5; j++){
System.out.println((i==1||j==1||i==5||j==5?c:""));
}
}
}
```

(39) write a program to remove the vowels?

```
import java.util.Scanner;
public class Removevowels{
    public static void main (String args[]){
Scanner input = new Scanner (system.in);
String result = input.next().replaceAll("[aeiouAEIOU]","");
System.out.println (result);
}
}
```

(40) write a program to print hollow square pattern?

```
import java.util.Scanner;
public class Hollow{
    public static void main (String[] args){
Scanner input = new Scanner (system.in);
char c = input.next().charAt(0);
for (int i=1; i<=5; i++){
    for (int j=1; j<=5; j++){
System.out.println((i==1||j==1||i==5||j==5?c:""));
}
}
}
}
```