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Course: JAVA Programming
Course ID: CSA0693

1. write a program to print the pattern

1

4 9

16 25 36.

49 64 81 100.

```
import Java.Util.Scanner;
int n= input.nextInt();
int k=1;
for (int i=1; i<=n; i++)
{
    System.out.print(k*k+" ");
    k++;
}
System.out.println();
}
```

2. write program for number of composite number in array of elements

```
import Java.Util.Scanner;
class ann
{
    public static void main (String args[])
    {
        Scanner input = new Scanner (System.in);
        int arr[E] = {16, 18, 27, 16, 23, 21, 19};
        int len = arr.length();
```

sum = sum + rem;

```
int count = 0;
for (int i=0; i<len; i++).
{
    int c = 0;
    for(int j=1; j<100; j++)
    {
        if (arr[i] % j == 0).
        {
            c++;
        }
    }
    if (c > 2).
        count++;
}
System.out.println (count);
```

3. Find. nth odd number after n odd number.

```
import Java.util.Scanner;
class odd
{
    public static void main(String args[]);
    {
        Scanner input = new Scanner (System.in);
        int n = input.nextInt();
        int arr[] = new int[100];
        int j = 1;
        for (int i=1; i<100; i++)
        {
            if (i%2 != 0) {
                arr[j]=i;
                j++;
        }
```

3

System.out.print(arr[n-2]);

4. write a program that finds whether character is present a string or not.

```
import java.util.Scanner;
class Present {
    public static void main (String args[]).
    {
        Scanner input= new Scanner (System.in);
        String str= input.nextLine();
        Char c= input.next().charAt(0);
        Char arr[]= new char.[str.length()]
        int len= str.length();
        int x=0;
        for (int i=0; i< len ; i++)
        {
            arr[i]= str.charAt(i);
            if arr[i]==c)
            {
                System.out.println(c+" is
            found at index" + (i+1));
            x=1;
            }
        }
        if (x==0).
        {
            System.out.println( "character not fo
        }
```

int c = 0;

5. Write program to print below pattern

```
1
2 2
3 3 3
4 4 4 4
3 3 3
2 2
1
```

```
import Java.Util.Scanner;
class pattern
{
    Public static void main (String args[]).
    {
        Scanner. input = new Scanner (System.in);
        int n = input.nextInt();
        for(int i=1 ; i<=n; i++).
        {
            System. Out. print(i);
        }.
        System. out. println();
    }
    for (int i=n-1 ; i>=1; i--).
    {
        for (int j=1; j<=i; j++).
        {.
            System. out. print (i);
        }.
        System. out. println(i);
```

6. Armstrong number.

```
import Java.Util.Scanner;
class. Armstrong
{
    public static void main (String args[])
    {
        Scanner input = new scanner (System.in);
        int n = input.nextInt();
        int num1 = n;
        int arm = 0;
        while (num1 != 0)
        {
            int rem = num1 % 10;
            arm = arm + (rem * rem * rem);
            num1 = num1 / 10;
        }
        if (n == arm)
        {
            System.out.println("Armstrong number");
        }
        else.
        {
            System.out.println("Not a Armstrong number");
        }
    }
}
```

---

7. program to arrange letters of word alphabetically in reverse. order.

```
import Java.Util.Scanner;
class. letters
{
```

```
{
    Public static void main(String args[]).
    {
        Scanner. input = new. Scanner (System.in);
        String name = input. nextLine();
        int len = name. length();
        Char arr[] = new char[len];
        String Alpha;
        for (int i=0; i< len; i++).
        {
            arr[i] = name. charAt(i);
        }.
        Arrays. sort(arr);
        for (int i=len-1; i>=0; i--)
        {.
            System.out.print(arr[i] + " ");
        }
    }
}
```

---

8. Remove Vowels from String

```
impore Java.util.Scanner;
Class. Vowels
{
    Public static Void main (String args[]).
    {
        Scanner input = new Scanner (System.in);
        String name = input. nextLine();
        String n1 = name. replaceAll("[aeiouAEIOU]", "u");
        System.out. println (n1);
```

9. program to print hollow square dollar pattern

```
import Java.util.Scanner;
class hollow
{
    public static void main (String args[])
    {
        Scanner input= new Scanner (system.in);
        int n= input.nextInt();
        for(int i=0; i<n; i++)
        {
            for(int j=0; j<n; j++)
            {
                if (i==0|| j==0 || i==n-1 || j==n-1)
                    System.out.print("$");
                else
                {
                    system.out.print(" ");
                }
                System.out.println();
            }
```

10. Sum of Digits.

```
import Java.util.Scanner;
class Sum
{
    public static void main (String args[]).
    {
        Scanner input = new Scanner (System.in);
        int n = input.nextInt();
        int sum=0;
        while (n!=0)
```

{

```
int rem=n%10;
sum = sum+rem;
n=n/10;
```

}.

```
system.out.println (sum);
```