

31) FACTORIAL

```

import java.util. Scanner;
public class factorial {
    public static void main (String[] args) {
        Scanner input = new Scanner (System.in);
        int n= input.nextInt();
        int fact=1;
        for (int i=1; i<=n; i++)
        {
            fact=fact*i;
        }
        System.out.print (n+" factorial = " + fact);
    }
}

```

32) PRINT THE PATTERN

```

import java.util. Scanner;
public class Pattern {
    public static void main (String[] args) {
        Scanner input = new Scanner (System.in);
        int n= input.nextInt();
        int k=1;
        for (int i=1; i<=n; i++)
        {
            for (int j=1; j<=i; j++)
            {
                System.out.print (k*k+" ");
                k++;
            }
            System.out.println ();
        }
    }
}

```

33) FIND THE NUMBER OF COMPOSITE NUMBER :-

```
import java.util.Scanner;

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

34) n^{th} Odd number

```
import java.util.Scanner;

public class nth 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++;
    }
}
System.out.print (arr[n * 2]);
}
}

```

35) STRING OR NOT

```

import java.util.Scanner;

public class String {
    public static void main (String[] args) {
        Scanner input = new Scanner (System.in);
        String str = input.nextLine();
        char c = input.nextLine().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 in string at index: " + (i + 1));
            }
        }
    }
}

```

x=1;

}

}

if (x==0)

System.out.print("character not found");

}

}

36) RIGHT INVERTED PYRAMID

import java.util.Scanner;

public class Invert {

public static void main (String[] args){

Scanner input = new Scanner (System.in);

int n = input.nextInt();

for (int i=1; i<=n; i++)

{

for (int j=1; j<=i; j++)

{

System.out.print (i);

}

System.out.println ();

}

for (int i=n-1; i>=1; i--)

{

for (j=1; j<=i; j++)

{

System.out.print (i);

}

System.out.println ();

}

}

}

Q1) ARMSTRONG NUMBER

```
import java.util.Scanner;

public 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.print ("Armstrong number");
        else
            System.out.print ("Not an Armstrong number");
    }
}
```

38) REVERSE WORD :-

```
import java.util.Scanner;
import java.util.Arrays;
public class Reverse {

    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] + " ");
```

```
}
```

```
}
```

```
}
```

39) REMOVE VOWELS:

```
import java.util.Scanner;
```

```
public class Vowels {
```

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

```
        Scanner input = new Scanner(System.in);
```

```
        String name = input.nextLine();
```

```
        String n1 = name.replaceAll("[aeiouAEIOU]", "");
```

```
        System.out.println(n1);
```

```
}
```

```
}
```


40) HOLLOW SQUARE DOLLAR PATTERN

```
import java.util.Scanner;

public class HollowSquare {

    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();
        }
    }
}
```