

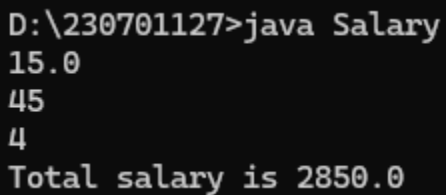
Week 1

SALARY CALCULATION:

```
import java.util.*;
public class Salary1{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        double weeksalary;
        double h=sc.nextDouble();
        int hr=sc.nextInt();
        int wk=sc.nextInt();
        if(hr>40){
            weeksalary=((40*h)+((hr-40)*(h*1.5)));}
        else
        {weeksalary=(hr*h);}

        if(hr<20){
            weeksalary=weeksalary*0.9;}
        double total=weeksalary*wk;
        System.out.println("salary is " +total);

    }
}
```



```
D:\230701127>java Salary
15.0
45
4
Total salary is 2850.0
```

BILL GENERATION:

```
import java.util.*;
import java.lang.*;
public class Ticket{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
```

```

String a =sc.nextLine();
int n=sc.nextInt();
double amt=0;
if(a.equals("Regular"))
{if(n>10)
amt=50*0.9*n;
else
amt=50*n;
if(amt<200){amt=amt+20;}
}

if(a.equals("VIP"))
{
if(n>5)
amt=100*0.85*n;
else
amt=100*n;
if(amt<200)
{amt=amt+20;}
}

if(a.equals("Premium"))
{
if(n>3)
amt=150*0.8*n;
else
amt=150*n;
if(amt<200)
{
amt=amt+20;
}}

System.out.println("Ticket Cost is " +amt);

}}

```

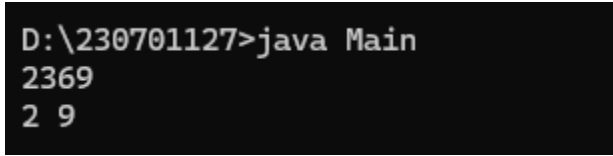
```

D:\230701127>java Ticket
Regular
12
Ticket Cost is 540.0

```

LARGEST AND SMALLEST OF A NUMBER:

```
import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        int s=9;
        int l=0;
        while(n>0){
            int d=n%10;
            if(d<s) s=d;
            if (d>=l) l=d;
            n=n/10;
        }
        System.out.println(s+" "+l);
    }
}
```



```
D:\230701127>java Main
2369
2 9
```

ZERO ONE TRIANGLE PATTERN:

```
import java.util.*;
public class First {

    public static void main(String[] args) {

        int n,i,j;
        Scanner o=new Scanner(System.in);
        n=o.nextInt();
        for (i = 1; i <=n; i++) {
            for (j = 1; j <=i ; j++) {
                if ((i+j)%2==0)
                    System.out.print("1" + " ");
                else
```

```

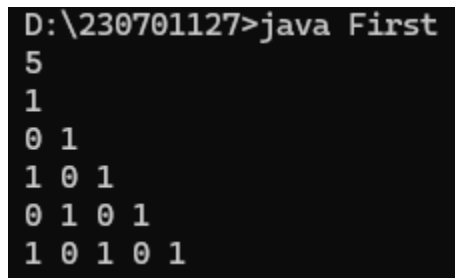
        System.out.print("0" + " ");

    }
    System.out.println();}

}

}

```



```

D:\230701127>java First
5
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1

```

NUMBER INCREASING REVERSE PYRAMID PATTERN:

```

import java.util.*;
public class Second{
    public static void main(String[] args)
    {
        int n,i,j;
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        for(i=0;i<n;i++)
        {
            for(j=0;j<n-i;j++)
            {
                System.out.print(j+" ");
            }
            System.out.println();
        }
    }
}

```

```
D:\230701127>java Second
6
0 1 2 3 4 5
0 1 2 3 4
0 1 2 3
0 1 2
0 1
0
```

IDENTIFY THE WEEKEND OR WEEKDAY:

```
import java.util.*;
```

```
import java.lang.*;
```

```
class Switch{
```

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

```
String a;
```

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

```
a=o.nextLine();
```

```
switch(a){
```

```
case "Monday":
```

```
case "Tuesday":
```

```
case "Wednesday":
```

```

case "Thursday":

case "Friday":

    System.out.println("It's a weekday");break;

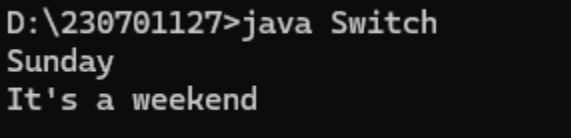

case "Saturday":

case "Sunday":

    System.out.println("It's a weekend");break;

}}}

```



```

D:\230701127>java Switch
Sunday
It's a weekend

```

STRONG NUMBER PROGRAM:

```

import java.util.*;
public class Second{
    public static void main(String[]args){
        int n,i,r=0,s=0,f=1,j,sum=0;
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        int temp=n;
        while(n>0){
            f=1;
            s=n/10;
            r=n%10;
            n=s;
            for(i=1;i<=r;i++){
                f=f*i;}
            sum=sum+f;}
        if(sum==temp){
            System.out.println("It is a Strong Number");
        }
        else{
            System.out.println("It is Not a Strong Number");
        }
    }
}

```

}}

```
D:\230701127>java Second1
145
It is a Stong Number
```