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
```