2.Finding smallest and largest in array:

```
public class FindLargestSmallestNumber {
 public static void main(String[] args)
 {
int numbers[] = new int[]
{55,32,4,8,11,9,39,50};
int smallest = numbers[0];
int largest = numbers[0];
 for (int i = 1; i < numbers.length; i++)
 {
 if (numbers[i] > largest)
 largest = numbers[i];
else if (numbers[i] < smallest)
 smallest = numbers[i];
}
 System.out.println("Largest Number is : "
+ largest);
 System.out.println("Smallest Number is : "
+ smallest);
```

```
}
}
```

O/P:

```
Largest Number is:55
Smallest Number is:4
```

3.Sum of integers:

```
public class JavaSumOfIntegersInRange
{
public static void main(String args[])
{
int result = 0;
for (int i = 100; i <= 200; i++)
{
if (i % 7 == 0)
result += i;
}
System.out.println("Output of Program is :
```

" + result);
}
}
O/p:
Output of program is:2107

4.Swapping 2 variables

```
import java.util.*;
class Swap{
 public static void main(String[] args) {
int x,y,t;
Scanner sc = new Scanner(System.in);
 System.out.println("Enter the value of X an
d Y:");
 x = sc.nextInt();
y = sc.nextInt();
  t = x;
  x = y;
 y = t;
System.out.println("After swapping:"+x + y);
```

```
}
}
```

O/p:

```
Enter value of X and Y:4 5
After swaping:5 4
```

5.pattern

```
public class pattern
 {
public static void main(String[] args)
{
for (int i = 1; i <= 5; i++)
{
for (int j = 5; j >= i; j--)
{
System.out.print(j + " ");
}
System.out.println();
```

```
}
}
}
```

O/p:

```
 5 4 3 2 1
5 4 3 2
5 4 3
5 4
5
```