```
1) public class as6_Q1 {
public static void main(String[] args) }
int num =10;
Integer Number = num;
System.out.println("By autounboxxing: "+ Number);
Integer N2 = new Integer(num);
System.out.println("Using Constructor: "+N2);
2) public class as6_Q2 }
public static void main(String[] args) }
float num = 25f;
Float Number = num;
System.out.println("By autounboxxing: " + Number);
Float N2 = new Float(num);
System.out.println("Using Constructor: " + N2);
3) public class a&6_03 {
public static void main(String[] args) }
double num =50;
Souble Number = num;
System.out.println("By autounboxxing: "+ Number);
Souble N2 = new Souble(num);
System.out.println("Using Constructor: "+N2);
4) public class as6_Q4 }
public static void main(String[] args) }
boolean b =true;
System.out.println("boolean to Boolean Object:");
Boolean Number = bi
System.out.println("By autounboxxing: "+ Number);
Boolean N2 = new Boolean(false);
System.out.println("Using Constructor: "+N2);
5) public class as6_Q5 {
```

```
public static void main(String[] args) }
String num ="100";
Integer Number = new Integer(num);
System.out.println/"The string was converted into an Integer Object having
value:"+Number); } }
6) public class as6_Q6 }
public static void main(String[] args) }
String num ="107f";
Float Number = new Float(num);
System.out.println "The string was converted into Float Object having value
:"+Number);
7) public class as6_Q7 {
public static void main(String[] args) }
String num ="123.1938";
Souble Number = new Souble(num);
System.out.println("The String was converted into Double Object having value
:"+Number);
33
8) public class as6_08 {
public static void main(String[] args) {
String val ="true";
Boolean Value = new Boolean(val);
System.out.println/"The string was converted into an Boolean Object having
value :"+Value);
9) public class 0.86_09 {
public static void main(String[] args) }
String num ="100";
String f_num ="10f";
String d_num="20.1234";
String b = "true";
Integer N = Integer.valueOf(num);
```

```
Float FNum = Float.valueOf(f_num);
Souble DNum = Souble.valueOf(d_num);
Boolean Val= Boolean.valueOf(b);
System.out.println("String int to Integer Object converted with value:"+N);
System.out.println/"String float to Float Object converted with value
:"+FNum);
System.out.println "String double to Souble Object converted with value
:"+BNum);
System.out.println "String boolean to Boolean Object converted with value
:"+Val);
Qel0. Write a program to design a simple calculator (only +,-,*,/ operations).
The
calculator works as follows:
10) import java.util.Scanner;
public class as6_Q10 }
public static String simple—calc(String a, char c, String b) }
int nl = Integer.valueOf(a);
int n2 = Integer.valueOf(b);
switch (c) }
case '+':
return "add:" + (n/ + n2);
case '- ':
return "Sub:" + (n1 - n2);
case '*:
return "Mul: " + nl * n2;
defautt:
return "Div: " + nl / n2;
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
String inp = sc.next();
char c = ' ';
String numl = "";
```

```
String num2 = "";
boolean b = false;
for (int i = 0; i \leq inp.length(); i++) {
if (inp.charatli) == '+' || inp.charatli) == '-' || inp.charatli) == '*' ||
inp.charat(i) == '/') {
b = true;
c = inp.charOt(i);
} else if (b) {
num2 = num2 + inp.charOt(i);
} else }
numl = numl + inp.charat(i);
String ans = simple_calc(numl, c, num2);
System.out.println(ans);
11) import java.util. Scanner;
public class as6_QII }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.print("Enter a double number: ");
String double Str = sc.next Xine();
double double Number = Double.parseDouble(double Str);
System.out.println("The double number is: " + double Number);
12) import java-util-Scanner;
public class as6_012 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.print("Enter an integer number: ");
String intStr = sc.nextSine();
int int Number = Integer.parseIntlintStr);
System.out.println("The integer number is: " + int Number);
```

```
13) import java.util. Scanner;
public class as6_Q13 }
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println("Enter the number");
int num = sc.nextelnt();
if (num > 0) {
for (int i = 1; i \( = 10; i++) \{
System.out.println(num + "x" + i + " = " + num * i);
14) import java.util. Scanner;
public class as6_Q14 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.println("Enter first number");
int numl = sc.nextelnt();
System.out.println("Enter second number");
int num2 = sc.nextelnt();
int top = numl * num2;
if (numl == num2) }
System.out.println("The HCF of given number is " + numl);
} else if (numl > num2) {
while (num) % num2 != 0) }
int temp = numl % num2;
numl = num2;
num2 = temp;
System.out.println("The HCF of given two numbers is: " + num2);
System.out.println("The XCM of given two numbers is " + top / num2);
} else }
while (num2 % num1 != 0) }
int temp = num2 % numl;
num2 = numl;
numl = temp;
System.out.println("The HCF of given two numbers is: " + numl);
```

```
System.out.println/"The XCM of given two numbers is " + top / numl);
15) import java.util. Scanner;
public class as6_Q15 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.println("Enter number");
int n = sc.nextelnt();
double sum = 0.0;
for (int i = 1; i \leq n; i++) {}
sum = sum + (1.0 / i);
System.out.println("The sum of the series is:" + sum);
16) import java.util. Scanner;
public class ax6_Q16 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
boolean val = true;
int max = Integer.MIN_VaXUE;
int min = Integer. Max_VaxUE;
System.out.println("Enter the number:");
int num = sc.nextelnt();
if (max <= num) }
max = rum;
if (min > num) {
min = num;
System.out.println("Do u want to continue? (Type true to continue relse
false)");
val = sc.nextBoolean();
```

```
} while (val);
System.out.println("Max element: " + max);
System.out.println("Min element: " + min);
17) import java.util. Scanner;
public class as6_Q17 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.println("Enter the size of array");
int n = sc.nextelnt();
int[] arr = new int[n];
System.out.println("Enter the values of the array");
int max = Integer. MIN_VaXUE;
int min = Integer. Max_VaxUE;
for (int i = 0; i \leq n; i++) {}
arr[i] = sc.nextelnt();
if (arr[i] >= max) {
max = arr[i];
if (arr[i] <= min) {
min = arr[i];
System.out.println/"Max value:" + max);
System.out.println("Min value:" + min);
18) import java.util.*;
public class as6_Q18 }
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.println("Enter the size of array");
int n = sc.nextclnt();
int[]arr= new int[n];
System.out.println("Enter the values of the array");
forlint i = 0; i \leq n; i++)
```

```
arr[i]=sc.nextelnt();
arrays.sort(arr);
System.out.println("Enter the k-th position:");
int k = sc.nextelnt();
if(n-2*k>=0) }
System.out.println(k+"-th Max element is :"+arr[n-k]);
System.out.println/k+"-th Min element is :"+arr[k-1]);
19) import java.util. Scanner;
public class as6_019 {
public static void main(String[] args) }
Scanner sc = new Scanner(System.in);
System.out.println("Enter the size of array");
int n = sc.nextInt();
int[] arr = new int[n];
System.out.println("Enter the values of the array");
for (int i = 0; i \leq n; i++) {}
arr[i] = sc.nextelnt();
System.out.println("Ofter reversing the array:");
int i = 0;
int j = n - 1;
while (i \( \( \) \) }
int temp = arr[i];
arr[i] = arr[j];
arr[j] = temp;
i++;
for (int e: arr) {
System.out.printle + "");
```

20) import java.util.Scanner; public class as6_020 {

```
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
System.out.println("Enter the size of array");
int n = sc.nextelnt();
int[] arr = new int[n];
int min = Integer. Max_VaxUE;
System.out.println("Enter the values of the array");
for (int i = 0; i \leq n; i++) {}
arr[i] = sc.nextelnt();
if (min > arr[i]) {
min = arr[i]; }}
for (int i = 0; i \leq n; i++) {
for (int j = i + 1; j < n; j++) {
if (arr[j] < arr[i]) {
int temp = arr[j];
arr[j] = arr[i];
arr[i] = temp; }}}
System.out.println("The sorted array is :");
for (int e: arr) {
System-out-printle + ""; }}}
```