

QUESTION - 6

Write a program to convert an integer to an Integer Object.

- (a) Auto boxing
- (b) Using constructor.

Code: public class Question1 {

public static void main (String [] args) {

int x=5;

Integer x1 = x;

System.out.println ("Original Number "+x + " Using

Auto boxing the value : "+x1 + " \n Using constructor the

value :" +x2);

3

QUESTION - 2: Write a program to convert an float to an Integer object.

- (a) Auto boxing
- (b) Using constructor

Code: public class Question2 {

public static void main (String [] args) {

float x = 5.03f;

Float x1 = x;

Float x2 = new Float (x);

System.out.println ("Original number "+x + " \n Using

System.out.println ("Original number (Auto boxing): "+x1 + " \n Using

Constructor: "+x2);

3

QUESTION - 3: Write a Program to convert an integer to double to an Double object

- (a) Auto boxing
- (b) Using constructor

Code: public class Question3 {

public static void main (String [] args) {

double x = 7.0551;

Double x1 = x;

Double x2 = new Double (x);

System.out.println ("Original number :" +x + " \n Using

Auto boxing the value : "+x1 + " \n Using constructor the

value :" +x2);

3

QUESTION - 4: write a program to convert an boolean to Boolean object

- (a) Auto boxing
- (b) Using constructor

Code: public class Question4 {

public static void main (String [] args) {

boolean x=true;

Boolean x1 = x;

Boolean x2 = new Boolean (x);

System.out.println ("Original Number "+x + " \n

converted Number (Auto boxing): "+x1 + " \n converted

Number (Using constructor): "+x2);

3

Question-5: write a program to read an integer as a String and convert it to an Integer Object.

```
import java.util.*;
public class Question-5{
    public static void main (String[] args)
    {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Integer): ");
        String a = obj.nextLine();
        try {
            Integer y = Integer.valueOf (a);
            System.out.println ("Original :" + a + "\n Converted :" + y);
        }
        catch (NumberFormatException e)
        {
            System.out.println ("Invalid, Please Enter Again");
        }
    }
}
```

Question-6: write a program to read an ~~Integer~~ as a String and convert it to an Float Object.

```
import java.util.*;
public static void main (String[] args)
{
    Scanner obj = new Scanner (System.in);
    System.out.println ("Enter a String (Float): ");
    String a = obj.nextLine();
    try {
        Float y = Float.valueOf (a);
        System.out.println ("Original :" + a + "\n Converted :" + y);
    }
    catch (NumberFormatException e)
    {
        System.out.println ("Invalid, Please Enter Again");
    }
}
```

Question-7: Write a Program to read a double as String and convert it to an Double object.

```
import java.util.*;
public class Question-7
{
    public static void main (String[] args)
    {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Double): ");
        String a = obj.nextLine();
        try {
            Double y = Double.valueOf (a);
            System.out.println ("Original :" + a + "\n Converted :" + y);
        }
        catch (NumberFormatException e)
        {
            System.out.println ("Invalid, Please Enter Again");
        }
    }
}
```

Question-8: Write a program to read a Boolean as String and convert it to an Boolean Object.

```
import java.util.*;
public class Question-8
{
    public static void main (String[] args)
    {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Boolean): ");
        String a = obj.nextLine();
        try {
            Boolean y = Boolean.valueOf (a);
            System.out.println ("Original :" + a + "\n Converted :" + y);
        }
        catch (NumberFormatException e)
        {
            System.out.println ("Invalid, Please Enter Again");
        }
    }
}
```

Question 4: Create a program to convert int, float, double and boolean from any object type. Use the value of method import java.util.*;

```
public class Question4 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Integer): ");
        String z = obj.nextLine ();
        String x = obj.nextLine ();
        System.out.println ("Enter a String (Double): ");
        String y = obj.nextLine ();
        System.out.println ("Enter a String (Boolean): ");
        String z = obj.nextLine ();
```

```
try {
    Integer i = Integer.parseInt (x);
    Float j = Float.parseFloat (y);
    Double k = Double.parseDouble (y);
    Boolean l = Boolean.parseBoolean (z);
    System.out.println ("Original : " + i + " converted : " + l);
    System.out.println ("Original : " + x + " converted : " + j);
    System.out.println ("Original : " + y + " converted : " + k);
    System.out.println ("Original : " + z + " converted : " + l);
}
```

```
} catch (NumberFormatException e) {
    System.out.println ("Invalid. Please Enter Again . . .");
}
```

Question 5: write a program to design a calculator to calculate any operation.

```
import java.util.*;
public class Question10 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        String s = obj.nextLine ();
        String[] parts = s.split ("[\t\n\r\f\v]+");
        if (parts.length != 2)
            System.out.println ("Invalid Entry");
        else {
            System.out.println (parts[0].trim ());
            System.out.println (parts[1].trim ());
            double r = Double.parseDouble (parts[0].trim ());
            double y = Double.parseDouble (parts[1].trim ());
            double answer = 0;
            char operation = s.charAt (parts[0].length ());
            switch (operation) {
                case '+': answer = x+y;
                case '-': answer = x-y;
                case '*': answer = x*y;
                case '/': answer = x/y;
                break;
            }
            System.out.println ("Answer is " + answer);
        }
    }
}
```

```
} catch (NumberFormatException e) {
    System.out.println ("Invalid. Please Enter Again . . .");
}

String any = String.valueOf (answer);
System.out.println (any);

} catch (NumberFormatException e) {
    System.out.println ("Please enter valid operation . . .");
}
```

Question-11: Write a program to read user input double as string

```
import java.util.*;
public class Question11 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Double): ");
        String s = obj.nextLine ();
        try {
            Double d = Double.parseDouble (s);
            System.out.println ("Converted value : " + d);
        } catch (NumberFormatException e) {
            System.out.println ("Invalid Input");
        }
    }
}
```

Question-12: Write a program to read user input as strings and convert it to an int base.

```
import java.util.*;
public class Question12 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        System.out.println ("Enter a String (Integer): ");
        String s = obj.nextLine ();
        try {
            Integer d = Integer.valueOf (s);
            int i = d;
            System.out.println ("Converted value : " + i);
            System.out.println ("Unboxing Value : " + db);
        } catch (NumberFormatException e) {
            System.out.println ("Invalid Input");
        }
    }
}
```

Question-13: Write a program to read a positive integer and print multiplication table

```
import java.util.*;
public class Question13 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        int x = obj.nextInt();
        for (int i = 1; i <= 10; i++) {
            System.out.println (x + "*" + i + " = " + x * i);
        }
    }
}
```

Question-14: write a program to calculate HCF and LCM of two given numbers...

```
import java.util.*;
public class Question14 {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        int x = obj.nextInt();
        int y = obj.nextInt();
        int temp = x * y;
        int n = 0;
        while (y != 0) {
            n = y;
            y = x % y;
            x = temp / y;
        }
        System.out.println ("GCD is :" + n + " LCM is "
                           + temp / n);
    }
}
```

Question - 15 :- write a program to calculate the sum of the following series where n is the input by user
import java.util.*;
public class Question15 {
 public static void main (String [] args) {
 Scanner obj = new Scanner (System.in);
 int x = obj.nextInt();
 double p = 0.0;
 for (double i=1; i<=x; i++)
 double n = 1/i;
 p+=n;
 System.out.println (p);
 }
}

Question - 16 :- write a program to enter tell the user
import java.util.*;
public class Question16 {
 public static void main (String [] args)
 {
 Scanner s = new Scanner (System.in);
 int max = Integer. MIN_VALUE;
 int min = Integer. MAX_VALUE;
 char ch;
 do {
 System.out.print ("Enter the number ");
 n = s.nextInt();
 if (n > max)
 max = n;
 if (n < min)
 min = n;
 } while (ch != 'Y' || ch == 'y');
 }
}

Question - 17 :- write a Java program to find the minimum & maximum value in an array.
import java.util.*;
public class Question17 {
 public static void main (String [] args)
 {
 Scanner obj = new Scanner (System.in);
 System.out.print ("Enter the numbers and size : ");
 int n = obj.nextInt();
 int [] arr = new Int [n];
 for (int i=0; i<n; i++)
 arr [i] = obj.nextInt();
 int max = Integer. MIN_VALUE;
 int min = Integer. MAX_VALUE;
 for (int i=0; i<n; i++)
 {
 if (arr [i] > max)
 max = arr [i];
 if (arr [i] < min)
 min = arr [i];
 }
 System.out.println ("Max number is : " + max);
 System.out.println ("Min number is : " + min);
 }
}

Question-18:- write a program to find Rth largest & Rth smallest value in an array

```

import java.util.*;
public class Array {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        int n = obj.nextInt();
        int [] arr = new int [n];
        for (int i=0 ; i<n ; i++) {
            arr [i] = obj.nextInt();
        }
        int k=obj.nextInt();
        while (Sort (arr));
        System.out.println ("Kth min is : " + arr [n-k]);
        System.out.println ("Kth max is : " + arr [k-1]);
    }
    public static void bubblesort (int arr[]) {
        for (int i=0 ; i<arr.length ; i++) {
            for (int j=0 ; j<arr.length-i-1 ; j++) {
                if (arr [j] > arr [j+1]) {
                    int temp = arr [j];
                    arr [j] = arr [j+1];
                    arr [j+1] = temp;
                }
            }
        }
        for (int i=0 ; i<n ; i++) {
            System.out.print (arr [i] + " ");
        }
    }
}

```

Question-19:- complete a program to reverse a given array.

```

import java.util.*;
public class Arr {
    public static void main (String[] args) {
        Scanner obj = new Scanner (System.in);
        int n = obj.nextInt();
        int [] arr = new int [n];
        for (int i=0 ; i<n ; i++) {
            arr [i] = obj.nextInt();
        }
        int l=0, r=n-1;
        while (l<r) {
            int temp = arr [l];
            arr [l] = arr [r];
            arr [r] = temp;
            l++;
            r--;
        }
        for (int i=0 ; i<n ; i++) {
            System.out.print (arr [i] + " ");
        }
    }
}

```

Question-20: write a java program to sort the given array.

import java.util.*;

public class Q20 {

public static void main (String [] args)

{ Scanner obj = new Scanner (System.in);

int n=obj.nextInt();

int [] arr = new int [n];

for (int i=0; i<n; i++)

arr[i] = obj.nextInt();

bubblesort (arr);

System.out.println ("Sorted is:");

for (int i=0; i<n; i++)

System.out.print (arr[i]+", ");

}

public static void bubblesort (int arr [])

{ for (int i=0; i<arr.length; i++)

for (int j=0; j<arr.length-i-1; j++)

if (arr[j]>arr[j+1])

{ int temp = arr[j];

arr[j]=arr[j+1];

arr[j+1] = arr[j];

}

}