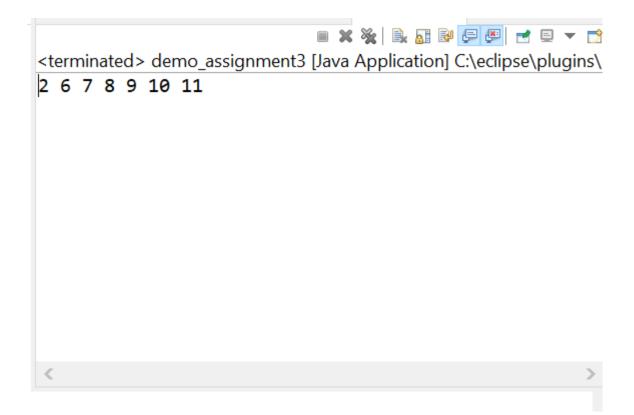
JAVA ASSESSMENT BY MANSI AGARWAL

- Q-1) C
- Q-2) B
- Q-3) C
- Q-4) A
- Q-5) E
- Q-6) A
- Q-7) A
- Q-8) A
- Q-9) A
- Q-10) A
- Q-11) A
- Q-13) B
- Q-14) C
- Q-15) B
- Q-16) C
- Q-17) D
- Q-18) A
- Q-19) D
- Q-21) D
- Q-22) B

```
Q-23) A
Q-24) C
Q-26) A
Q-27) C
Q-28) D
Q-29) C
Q-31)
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
           int[] a1 = {10,12,63,84,56};
       int[] a2 = {60,10,27,63,45};
       System.out.print("Common elements are ");
       for(int i=0;i<a1.length;i++){</pre>
           for(int j=0;j<a2.length;j++){</pre>
              if(a1[i]==a2[j]){
                  System.out.print(a1[i]+", ");
           }
     }
                                      <terminated> demo_assignment3 [Java Application] C:\eclipse\plugins\o
    Common elements are 10, 63,
```

Q-32)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
               int a1[] = {2,2,6,7,8,8,8,9,10,11,11};
int sz = a1.length, j=0;
                if(sz>=2)
                {
                      int[] t = new int[sz];
                    for (int i=0; i<sz-1; i++){</pre>
                         if (a1[i] != a1[i+1]){
                             t[j++] = a1[i];
                    t[j++] = a1[sz-1];
                    for (int i=0; i<j; i++){
                         a1[i] = t[i];
                    }
                for (int i=0;i<j; i++)</pre>
                System.out.print(a1[i]+" ");
       }
```



Q-33)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
               int a1[] = {0,2,6,0,88,0,0,0,9,10,0,11};
               int sz = a1.length,j=0,ze=0;
               int t[]=new int[sz];
               for(int i=0;i<sz;i++)</pre>
               {
                     if(a1[i]!=0)
                            t[j++]=a1[i];
                            ze++;
               for(int i=0;i<sz;i++)</pre>
                     if(i<j)</pre>
                     a1[i]=t[i];
                     else a1[i]=0;
               for(int i=0;i<sz;i++)</pre>
               System.out.print(a1[i]+ " ");
```



<terminated> demo_assignment3 [Java Application] C:\eclipse\plu
2 6 88 9 10 11 0 0 0 0 0

Q-34)

```
<terminated > demo_assignment3 [Java Application] C:\eclipse\plugins\or
Enter Number-
8
factorial of 8 is 40320
```

Q-35)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
                     Scanner <u>s=new Scanner(System.in);</u>
                     System.out.println("Enter number");
               int n=s.nextInt();
               int x=n*2-1;
               for (int i=0;i<n;i++)</pre>
                    for (int j=i;j>0;j--)
                    System.out.print(" ");
                    for (int k=0;k<x;k++)</pre>
                    System.out.print("*");
                    x-=2;
                    System.out.println();
               }
               x=1;
               for (int i=0;i<n;i++)</pre>
                    for (int j=i;j<n-1;j++)</pre>
                    System.out.print(" ");
                    for (int k=0;k<x;k++)
                    System.out.print("*");
                    x += 2;
                    System.out.println();
               }
           }
```

```
| Src/p1/ButtonExample.java | Name |
```

Q-36)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
                    Scanner sc=new Scanner(System.in);
                    System.out.println("Enter number");
                    System.out.print("Enter a: ");
                    int a1 = sc.nextInt();
                    System.out.print("Enter b: ");
                    int b = sc.nextInt();
                    System.out.print("Enter c: ");
                    int c = sc.nextInt();
                    double d=b*b-4.0*a1*c;
                    if (d>0)
                    double \underline{r1}=(-b+Math.pow(d, 0.5))/(2.0*a1);
                    double r2=(-b-Math.pow(d, 0.5))/(2.0*a1);
                    }
                    else if (d==0.0)
                    double r1=-b/(2.0*a1);
                    System.out.println("Root is " + r1);
                    }
                    else
                    System.out.println("Roots are not real.");
           }
```

```
<terminated > demo_assignment3 [Java Application] C:\eclipse\tau

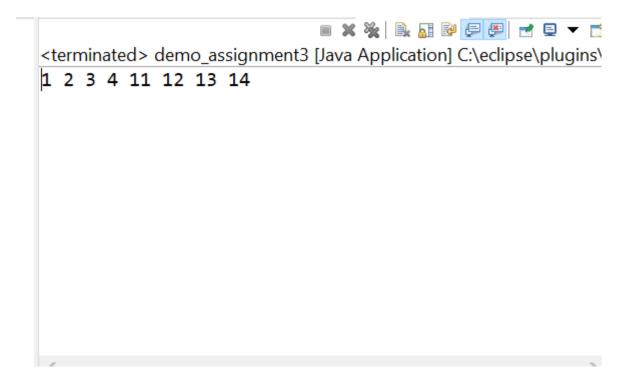
Enter number
Enter a: 1
Enter b: 2
Enter c: 1
Root is -1.0
```

Q-37)

```
<terminated > demo_assignment3 [Java Application] C:\eclipse\plugins\o
Enter Year-
2002
not a leap-year
```

Q-38)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
              ArrayList<Integer> a1=new ArrayList<Integer>();
              ArrayList<Integer> a2=new ArrayList<Integer>();
              ArrayList<Integer> a3=new ArrayList<Integer>();
        a1.add(1);
        a1.add(2);
        a1.add(3);
        a1.add(4);
        a2.add(11);
        a2.add(12);
        a2.add(13);
        a2.add(14);
        a1.forEach(n -> a3.add(n));
        a2.forEach(n -> a3.add(n));
        a3.forEach(n -> System.out.println(n));
           }
```



Q-39)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
public static void main(String[] args) {
    int[] a1 = {15,68,17,190,86,97};
    for (int i:a1)
        System.out.print(i+" ");
        Arrays.parallelSort(a1);
        System.out.println("\nSorted");
        for (int i:a1)
        System.out.print(i+" ");
}
```

Q-40)

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Scanner;
interface A
    void meth1();
    void meth2();
class MyClass implements A
{
      public void meth1() {
             System.out.println("Hi! I am meth1 function");
      public void meth2() {
             System.out.println("Hi! I am meth2 function");
      }
public class demo_assignment3 {
      public static void main(String[] args) {
              MyClass ob=new MyClass();
              ob.meth1();
              ob.meth2();
      }
}
```



<terminated> demo_assignment3 [Java Application] C:\eclipse\plugins

Hi! I am meth1 function

Hi! I am meth2 function