

AFARI JESSE
JAVA LAB ACTIVITY 2

Q8, Q21, Q24

```
import java.util.Scanner;

import java.util.*;

public class arearSqCir {

    public static void main(String arg[]) {

        //Q8,Q21,Q24

        int l,b,c,rad,num;

        l=5;

        rad=5;

        double pie=3.143;

        double areaCir;

        int areaSq=l*l;

        areaCir=pie*rad*rad;


        System.out.print("Area of Square with length: "+l+" = "+areaSq);

        System.out.print("\nArea of Circle with Radius: "+rad+" = "+areaCir);


        //Positive or negative

        Scanner sc= new Scanner(System.in);

        System.out.print("\n\nEnter a number : ");

        num=sc.nextInt();

        if(num>0) {

            System.out.print("\n"+num+" is Positive \n");

        }

        else if(num<0) {
```

```

        System.out.print(num+" is Negative\n");
    }
    else {System.out.print(num+" Zero");}
}
}

```

OUTPUT

```

Area of Square with length: 5 = 25
Area of Circle with Radius: 5 = 78.575
Enter a number : 2
2 is Positive

```

Q19

```

import java.util.Scanner;

import java.util.*;

public class evenndodd {
    public static void main(String arg[]) {
        //Q19
        int n=50;

        int i;
        for (i=1; i<n; i++) {
            if (i%2==0) { System.out.print("\nEven number "+i);}
        }
        System.out.print("\n ");

        for (i=1; i<n; i++) {
            if (i%2==1) { System.out.print("\nOdd number "+i);}
        }
    }
}

```

OUTPUT

Even number: 2 Even number: 4 Even number: 6 Even number: 8 Even number: 10 Even
number: 12 Even number: 14 Even number: 16 Even number: 18 Even number: 20 Even
number: 22 Even number: 24 Even number: 26 Even number: 28 Even number: 30 Even
number: 32 Even number: 34 Even number: 36 Even number: 38 Even number: 40 Even
number: 42 Even number: 44 Even number: 46 Even number: 48
Odd number: 1 Odd number: 3 Odd number: 5 Odd number: 7 Odd number: 9 Odd number:
11 Odd number: 13 Odd number: 15 Odd number: 17 Odd number: 19 Odd number: 21 Odd
number: 23 Odd number: 25 Odd number: 27 Odd number: 29 Odd number: 31 Odd number: 33
Odd number: 35 Odd number: 37 Odd number: 39 Odd number: 41 Odd number: 43 Odd
number: 45 Odd number: 47 Odd number: 49

Q20

```
public class leapyears {
    static boolean isleap(int y) {
        if ((y%400== 0)) {
            return true;
        }
        else if (y%100== 0) {
            return false;
        }
        else if (y%4== 0) {
            return true;
        }
        else {
            return false;
        }
    }
}

    public static void main(String arg[]) {
        //Q17
        int n=2020;
        int i;
        for (i=1980; i<=n; i++) {
            if(isleap(i)) {

                System.out.print(i+" ");

            }
        }
    }
}
```

OUTPUT

1980 1984 1988 1992 1996 2000 2004 2008 2012 2016 2020

Q17, Q18

```
public class number1to100 {
    public static void main(String arg[]) {
        //Q17 and Q18
        int n=100;
        int i;
        for (i=1; i<=n; i++) {
            System.out.print(i+" ");

        }

        int s=2000;
        while (s>1000) {
            System.out.println(s+" ");
            s--;
        }

    }
}
```

OUTPUT

```
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59
60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87
88 89 90 91 92 93 94 95 96 97 98 99 100
```

Q25

```
import java.util.*;
public class posnegcount {
    static boolean ispositive(int n) {

        if ((n>0)) {
            return true;
        }
        else if (n< 0) {
            return false;
        }
        else {
            return false;}
    }

    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);

        int n,i,j,poscount,negcount;
```

```

poscount=0;
negcount=0;
int zerocount=0;
System.out.print("Enter number of elements in array\n");
n=sc.nextInt();
int numarray[]=new int[n];

System.out.print("\nEnter elements into array\n");
for (i=0; i<n; i++) {
    numarray[i]=sc.nextInt();
}
System.out.print("\nNumbers are :"+Arrays.toString(numarray));

int pos[]=new int[n];
int neg[]=new int[n];
for(j=0;j<n; j++) {

    if(ispositive(numarray[j])) {
        pos[j]=numarray[j];
        ++poscount;
    }
    else if (numarray[j]==0){
        ++zerocount;
    }
    else {
        neg[j]=numarray[j];
        ++negcount;
    }
}
System.out.print("\nArray has : "+poscount+" Postive numbers and "+negcount+"
Negative numbers"
    + " and "+zerocount+" Zeros");
System.out.print("\nPositives : "+Arrays.toString(pos));
System.out.print("\nNegatives : "+Arrays.toString(neg));
}
}

```

OUTPUT

```

Enter number of elements in array
3
Enter elements into array
1 2 3
Numbers are :[1, 2, 3]
Array has : 3 Postive numbers and 0 Negative numbers and 0 Zeros
Positives : [1, 2, 3]
Negatives : [0, 0, 0]

```

Q1, Q3, Q4, Q13, Q14, Q15, Q16, Q22

```
public class Q14Q15Q16 {
    public static void main(String[] args) {

        //Q1
        System.out.println(args[0]);

        //Q3
        String s="200";
        int n=Integer.parseInt(s);
        System.out.println(n);

        //Q4
        int f=Integer.parseInt(args[1]);
        System.out.println(f+f);

        //Q13
        System.out.println("Public Notice :" +args[0]);
        //Q14
        int a,b,c;
        a=Integer.parseInt(args[0]);
        b=Integer.parseInt(args[1]);

        c=a+b;
        System.out.println("sum of " + a + " and " + b +" is " +c);

        //Q15
        int i,j;
        i=Integer.parseInt(args[0]);
        j=Integer.parseInt(args[1]);

        if (i>j) {
            System.out.println("I is the largest ");
        }
        else {
            System.out.println("J is the largest ");
        }

        //Q16
        System.out.println("Welcome " +args[0]);

        //Q22
        int q=10;
        System.out.println(q>3);
        System.out.println(q<9);

    }
}
```

OUTPUT

Q1: Jay

Q3: 200

Q4: 1, 2

Q13: Public Notice: Wear mask and maintain social distance

Q14: 5 5 Output: Sum of 5 + 5 is 10

Q15: 5 6 6 is greater

Q16: Welcome Jesse

Q16: Output1:True Output2:False

Q1, Q3,

```
public class Q6ToQ12 {  
    //for loop demonstration  
    public static void main(String[] args) {  
        int i;  
        for(i=0;i<5; i++) {  
            System.out.println("Hello World");  
        }  
  
        char ch='A';  
        int a =ch  
        System.out.println(ch);  
        System.out.println(a);  
    }  
}
```

OUTPUT

Hello World
Hello World
Hello World
Hello World
Hello World

