**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

65