**Question 01**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter First Number : ");

int num1 = input.nextInt();

System.out.print("Enter Second Number : ");

int num2 = input.nextInt();

int result = 0;

if(num1>num2){

result = num1+num2;

System.out.println(num1+" is Greater Than "+num2+". So addition of two numbers is "+result+".");

}else{

System.out.println(num1+" is Less Than "+num2+".");

}

}

}

**Question 02**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter Negative or Positive Integer : ");

int number = input.nextInt();

if(number<0){

System.out.println(" You Entered "+number+". absolute number of "+number+" is +"+-number+".");

}else{

System.out.println(" You Entered "+number+". absolute number of "+number+" is +"+number+".");

}

}

}

**Question 03**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter Chemistry Marks : ");

double chemistry = input.nextDouble();

System.out.print(" Enter Physics Marks : ");

double physics = input.nextDouble();

System.out.print(" Enter Combined MathsMarks : ");

double maths = input.nextDouble();

//Avarage calculation

double result = (chemistry + physics + maths)/3 ;

if(result>=75.00){

System.out.println(" Pass");

}else{

System.out.println(" Fail");

}

}

}

**Question 04**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Unit Price : ");

double unitPrice = input.nextDouble();

System.out.print(" Amount Brought : ");

double amount = input.nextDouble();

//Total calculation

double total = unitPrice\*amount ;

if(total>1500){

System.out.println(" You are entitled to the super draw.");

}else{

System.out.println(" Try again");

}

}

}

**Question 05**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Unit Price : ");

double unitPrice = input.nextDouble();

System.out.print(" Amount Brought : ");

double amount = input.nextDouble();

//Total calculation

double total = unitPrice\*amount ;

if(total>500.00){

double discount = total\*5/100;

total = total - discount;

System.out.println(" Your Discount is "+discount+" & your Final Amount is "+total+".");

}else{

System.out.println(" No discount given");

}

}

}

**Question 06**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter the Year: ");

int year = input.nextInt();

//Leap year check

if(year % 4 == 0){

if(year % 100 == 0){

if(year % 400 == 0){

System.out.println(" "+year+" is leap year");

}else{

System.out.println(" "+year+" is not a leap year");

}

}else{

System.out.println(" "+year+" is leap year");

}

}else{

System.out.println(" "+year+" is not a leap year");

}

}

}

**Question 06 (Method 02)**

import java.util.Scanner;

class LeapYearChecker {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter the year: ");

int year = input.nextInt();

// Leap year check

if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {

System.out.println(year + " is a leap year.");

} else {

System.out.println(year + " is not a leap year.");

}

}

}

**Question 07**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" First number A : ");

int a = input.nextInt();

System.out.print(" Second number B : ");

int b = input.nextInt();

System.out.print(" Third number C : ");

int c = input.nextInt();

if(a>b & a>c){

System.out.println(" Maximum number is A = "+a);

}else if(b>a & b>c ){

System.out.println(" Maximum number is B = "+b);

}else{

System.out.println(" Maximum number is C = "+c);

}

**}**

**}**

**Question 08**

C. if(x==10){}

E. if((x=100)!=10){}

F. if((x=100)>0==true){}

**Question 09**

A. if(b){}

B. if(b=false){}

C. if(b==false){}

D. if(b=false==false){}

E. if((b=false)==false){}

F. if(b=(false==true)){}

**Question 10**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter Integer Number : ");

int number = input.nextInt();

if(number%2==0){

System.out.println(" "+number+" is even number");

}else{

System.out.println(" "+number+" is odd number");

}

}

}

**Question 11**

A. true

B. true

C. true

D. false

E. true

F. false

G. true

**Question 12**

A. 9

B. true

C. error: incompatible types: boolean cannot be converted to int

D. false

E. true

**Question 13**

Line 01 - 10

Line 02 - true

Line 03 - error: incompatible types: boolean cannot be converted to int

Line 04 - true

Line 05 - true

Line 06 – false

**Question 14**

Line 01 - 2351.521.231ctrue

Line 02 - 101001251.521.231ctrue

Line 03 - 356.731true

Line 04 - error: bad operand types for binary operator '+'

Line 05 - error: bad operand types for binary operator '+'

**Question 15**

Line 01 - true

Line 02 - false

Line 03 - true

Line 04 - false

Line 05 - true

Line 06 - false

Line 07 – false

**Question 16**

A. 1 2 3

B. 2 3

C. 3

D. 4 1 2 3

E. 4 1 2 3

F. 4 1 2 3

**Question 17**

D. Prints 0 0

**Question 18**

A , B, C, D, E, F, H

Line 7,9,10 out of scope of the variable

**Question 19**

A. 1

B. 2 3 1

C. 3 1

D. Wrong

E. Wrong

F. Wrong

**Question 20**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter Integer Number : ");

int number = input.nextInt();

if(number<0){

System.out.println(" "+number+" is negative number");

}else if(number==0){

System.out.println(" You Entered "+number);

}else{

System.out.println(" "+number+" is positive number");

}

}

}

**Question 21**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter first number : ");

double number1 = input.nextDouble();

System.out.print(" Enter second number : ");

double number2 = input.nextDouble();

//calculation

double difference = number1-number2;

if(difference<0){

difference\*=-1;

}

System.out.println(" Absolute difference between two numbers is "+diffrance);

}

}

**Question 22**

Can insert

A. 65

B. 65

C. wrong

D. 65

E. 66

Can’t insert

F. incompatible types: boolean cannot be converted to int

G. incompatible types: char cannot be converted to String

H. incompatible types: possible lossy conversion from double to int

**Question 23**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter first number : ");

double number1 = input.nextDouble();

System.out.print(" Enter second number : ");

double number2 = input.nextDouble();

if(number1<number2){

System.out.println(" The first number is less than the second number");

}else if(number1>number2){

System.out.println(" The first number is greater than the second number");

}else if(number1==number2){

System.out.println(" Both are equal");

}

}

}

**Question 24**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter first Integer number : ");

int number1 = input.nextInt();

System.out.print(" Enter second Integer number : ");

int number2 = input.nextInt();

System.out.print(" Enter thrid Integer number : ");

int number3 = input.nextInt();

//rightmost digit of 3 numbers

int num1 = number1%10;

int num2 = number2%10;

int num3 = number3%10;

boolean result = false;

if(num1==num2 || num1==num3|| num2==num3){

result = true;

}

System.out.println(result);

}

}

**Question 25**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter first Integer number : ");

int num1 = input.nextInt();

System.out.print(" Enter second Integer number : ");

int num2 = input.nextInt();

System.out.print(" Enter thrid Integer number : ");

int num3 = input.nextInt();

boolean result = false;

if (num1 > (num2 - num3) || num2 > (num1 - num3) || num3 > (num1 - num2)) {

result = true;

}

System.out.println(result);

}

}

**Question 26**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter selling price : ");

double sell = input.nextDouble();

System.out.print(" Enter cost of product : ");

double cost = input.nextDouble();

if((sell-cost)>0){

System.out.println(" Profit");

}else if((cost-sell)>0){

System.out.println(" Loss");

}else if(cost==sell){

System.out.println(" No Profit No Loss");

}

}

}

**Question 27**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter number one: ");

int num1 = input.nextInt();

System.out.print(" Enter number two: ");

int num2 = input.nextInt();

System.out.print(" Enter number three: ");

int num3 = input.nextInt();

if((num1<num2 && num2<num3)){

System.out.println(" Increasing");

}else if((num1>num2 && num2>num3)){

System.out.println(" Decreasing");

}else{

System.out.println(" Neither increasing nor decreasing order");

}

}

}

**Question 28**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter person age: ");

int age = input.nextInt();

System.out.print(" Enter number weight in kg: ");

int weight = input.nextInt();

if( age>=18 && weight>=50){

System.out.println(" You are eligible to donate blood");

}else{

System.out.println(" You are not eligible to donate blood");

}

}

}

**Question 29**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter number one: ");

int num1 = input.nextInt();

System.out.print("Enter number two: ");

int num2 = input.nextInt();

boolean result = false;

if((num1>0 && num2>0)||(num1<0 && num2<0)){

result = true;

}

System.out.println(result);

}

}

**Question 30**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter character: ");

//capture letter as a String

String inputString = input.nextLine();

//capture letter from String

char letter = inputString.charAt(0);

//casting to integer

int conLetter = (int)letter;

if(conLetter >=65 && conLetter <=90){

System.out.println("you Entered uppercase Letter");

}else if(conLetter >=97 && conLetter <=122){

System.out.println("you Entered lowercase Letter");

}else{

System.out.println("Please Enter English Letter");

}

}

}

**Question 31**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Number: ");

int num1 = input.nextInt();

//get rightmost digit

int digit = num1%10;

if(num1%7==0 || digit==7){

System.out.println("you Entered Buzz Number");

}else{

System.out.println("you did not Entered Buzz Number");

}

}

}

**Question 32**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter number of classes: ");

int classes = input.nextInt();

System.out.print("Enter classes attended: ");

int attendance = input.nextInt();

//calculate presentage

double present = attendance\*100/classes;

if(present<70){

System.out.print("have you got medical cause? (yes for 'Y' and no for 'N'): ");

String answer = input.next();

if(answer.equals("Y")){

System.out.println("You can sit for Exam");

}else if(answer.equals("N")){

System.out.println("You can not sit for Exam");

}

}else if(present>=70){

System.out.println("You can sit for Exam");

}

}

}

**Question 33**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Your Salary: ");

int salary= input.nextInt();

System.out.print("Enter Years of Service: ");

int years = input.nextInt();

//calculate presentage

if(years<5){

salary \*= 1.1;

}else if(years>=5 && years<10){

salary \*=1.15;

}else if(years>=10){

salary \*=1.25;

}

System.out.println("Total salary with bonus is "+salary);

}

}

**Question 34**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter number of Books: ");

int bookQty= input.nextInt();

//calculate total

double total = bookQty\*100;

double discount=0;

if(total>=5000){

discount = total\*0.1;

}

System.out.println("SubTotal : "+total);

System.out.println("Discount : "+discount);

System.out.println("Discount : "+(total-discount));

}

}

**Question 35**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter your Temperature: ");

double temp= input.nextDouble();

System.out.println(temp>=80 ? "Swimming":temp>=60 && temp<80?"Tennis":temp>=40 && temp<60?"Golf":"Skiing");

}

}

import java.util.\*;

**Question 36**

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter the English Letter: ");

//capture letter as a String

String inputLetter = input.nextLine();

//Capture letter from String

char letter = inputLetter.charAt(0);

//casting to integer

int conLetter = (int)letter;

//Check user entered English Letter

if(conLetter <65 || conLetter >122){

System.out.println(" you did not enter English Letter");

}

if(conLetter==97||conLetter==101||conLetter==105||conLetter==111||conLetter==117||conLetter==65||conLetter==69||conLetter==73||conLetter==79||conLetter==85){

System.out.println(" you Entered vowel");

}else{

System.out.println(" you Entered consonant");

}

}

}

**Question 37**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter current annual salary: ");

double salary = input.nextDouble();

System.out.print(" Enter Performance rating (1=excellent, 2=good, and 3=poor).: ");

int rating = input.nextInt();

switch(rating){

case 1 :System.out.printf(" your perfomance raise is : %1.2f and your new salary is %1.2f",salary\*6/100,salary\*1.06);break;

case 2 :System.out.printf(" your perfomance raise is : %1.2f and your new salary is %1.2f",salary\*4/100,salary\*1.04);break;

case 3 :System.out.printf(" your perfomance raise is : %1.2f and your new salary is %1.2f",salary\*1.5/100,salary\*1.015);break;

}

}

}

**Question 38**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter attendance presentage %: ");

double attendance = input.nextDouble();

System.out.print(" Enter avarage Marks %: ");

double marks = input.nextDouble();

System.out.print(attendance>=80 && marks>=50?" You are eligible to sit O/L exam":" You are not eligible to sit O/L exam");

}

}

**Question 39**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter time in 00:00 24h format: ");

String time = input.nextLine();

// Extract the hour from the input string

int hour = Integer.parseInt(time.split(":")[0]);

System.out.println(hour>=0 && hour<12?" Good morning":hour>=12&&hour<16?" Good afternoon":hour>=16&&hour<19?"Good evening":hour>=19&&hour<=24?"Good night":" Enter Correct Time");

}

}

**Question 40**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter Year: ");

int year = input.nextInt();

boolean leapOrNot = (year%4==0 && year%100!=0) || (year%400==0)?true:false;

System.out.print(" Enter month (1-12): ");

int month = input.nextInt();

switch(month){

case 1 : System.out.print(" 31 Days");break;

case 2 : System.out.print(leapOrNot?" 29 Days":" 28 Days");break;

case 3 : System.out.print(" 31 Days");break;

case 4 : System.out.print(" 30 Days");break;

case 5 : System.out.print(" 31 Days");break;

case 6 : System.out.print(" 30 Days");break;

case 7 : System.out.print(" 31 Days");break;

case 8 : System.out.print(" 31 Days");break;

case 9 : System.out.print(" 30 Days");break;

case 10 : System.out.print(" 31 Days");break;

case 11 : System.out.print(" 30 Days");break;

case 12 : System.out.print(" 31 Days");break;

}

}

}

**Question 41**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter number of copies: ");

int copies = input.nextInt();

if(copies>0 && copies<100){

System.out.println(" Rs.30.00 per copy & your total amount is "+copies\*30);

}else if(copies>=100 && copies<500){

System.out.println(" Rs.28.00 per copy & your total amount is "+copies\*28);

}else if(copies>=500 && copies<800){

System.out.println(" Rs.27.00 per copy & your total amount is "+copies\*27);

}else if(copies>=800 && copies<=1000){

System.out.println(" Rs.26.00 per copy & your total amount is "+copies\*26);

}else{

System.out.println(" Rs.25.00 per copy & your total amount is "+copies\*25);

}

}

}

**Question 42**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print(" Enter waist size : ");

int size = input.nextInt();

if(size<28 || size>42){

System.out.println(" Enter Correct size ");

}

if(size>=28 && size<30){

System.out.println(" X-small");

}else if(size>=30 && size<32){

System.out.println(" Small");

}else if(size>=32 && size<35){

System.out.println(" Medium");

}else if(size>=36 && size<39){

System.out.println(" Large");

}else if(size>=40 && size<43){

System.out.println(" X-Large");

}

}

}

**Question 43**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter First number : ");

int num1 = input.nextInt();

System.out.print("Enter Second number : ");

int num2 = input.nextInt();

System.out.print("Enter Operator (+,-,\*,/,%,^): ");

char sign = input.next().charAt(0);

switch(sign){

case '+':System.out.println(num1+" "+sign+" "+num2+" = "+(num1+num2));break;

case '-':System.out.println(num1+" "+sign+" "+num2+" = "+(num1-num2));break;

case '\*':System.out.println(num1+" "+sign+" "+num2+" = "+(num1\*num2));break;

case '/':System.out.println(num1+" "+sign+" "+num2+" = "+(num1/num2));break;

case '%':System.out.println(num1+" "+sign+" "+num2+" = "+(num1%num2));break;

case '^':System.out.println(num1+" "+sign+" "+num2+" = "+Math.pow(num1,num2));break;

}

}

}

**Question 44**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter day from 2022 February: ");

int day = input.nextInt();

switch(day){

case 6:

case 13:

case 20:

case 27:System.out.println("Sunday");break;

case 7:

case 14:

case 21:

case 28:System.out.println("Monday");break;

case 1:

case 8:

case 15:

case 22:System.out.println("Tuesday");break;

case 2:

case 9:

case 16:

case 23:System.out.println("Wednesday");break;

case 3:

case 10:

case 17:

case 24:System.out.println("Thursday");break;

case 4:

case 11:

case 18:

case 25:System.out.println("Friday");break;

case 5:

case 12:

case 19:

case 26:System.out.println("Saturday");break;

}

}

}

**Question 45**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Raw Number (1-8): ");

int raw = input.nextInt();

System.out.print("Enter Column Number (1-8): ");

int col = input.nextInt();

if((raw%2==0&&col%2==0)||(raw%2!=0&&col%2!=0)){

System.out.print("White");

}else{

System.out.print("Black");

}

}

}

**Question 46**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter length a: ");

int a = input.nextInt();

System.out.print("Enter length b: ");

int b = input.nextInt();

System.out.print("Enter length c: ");

int c = input.nextInt();

System.out.println((a\*a)+(b\*b)==(c\*c)?"Pythagorean triple":"not in Pythagorean triple");

}

}

**Question 47**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Month (1-12): ");

int month = input.nextInt();

System.out.print("Enter day (1-30): ");

int day = input.nextInt();

if((month==12 && day>=21 || month <=3 && day<=19)){

System.out.println("Winter");

}else if((month>=3 && day>=20 || month <=6 && day<=20)){

System.out.println("Spring");

}else if((month>=6 && day>=21 || month <=9 && day<=21)){

System.out.println("Summer");

}else if((month>=9 && day>=22 || month <=12 && day<=20)){

System.out.println("Autumn");

}

}

}

**Question 48**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Birth Month (1-12): ");

int month = input.nextInt();

System.out.print("Enter Birth day (1-30): ");

int day = input.nextInt();

if((month==12&&day>=22)||(month==1&&day<=19)){

System.out.println("Capricornus");

}else if((month==1&&day>=20)||(month==2&&day<=18)){

System.out.println("Aquarius");

}else if((month==2&&day>=19)||(month==3&&day<=20)){

System.out.println("Pisces");

}else if((month==3&&day>=21)||(month==4&&day<=19)){

System.out.println("Aries (Ram)");

}else if((month==4&&day>=20)||(month==5&&day<=20)){

System.out.println("Taurus");

}else if((month==5&&day>=21)||(month==6&&day<=21)){

System.out.println("Gemini");

}else if((month==6&&day>=22)||(month==7&&day<=22)){

System.out.println("Cancer");

}else if((month==7&&day>=23)||(month==8&&day<=22)){

System.out.println("Leo");

}else if((month==8&&day>=23)||(month==9&&day<=22)){

System.out.println("Virgo");

}else if((month==9&&day>=23)||(month==10&&day<=23)){

System.out.println("Libra");

}else if((month==10&&day>=24)||(month==11&&day<=21)){

System.out.println("Scorpius");

}else if((month==11&&day>=22)||(month==12&&day<=21)){

System.out.println("Sagittarius");

}

}

**Question 49**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter Basic Salary: ");

double salary = input.nextDouble();

double ha = 0;

double ta = 0;

if(salary<=10000){

ha=salary\*0.2;

ta=salary\*0.6;

}else if(salary<=20000){

ha=salary\*0.25;

ta=salary\*0.7;

}else if(salary>20000){

ha=salary\*0.3;

ta=salary\*0.75;

}

System.out.println("Gross Salary :"+(salary+ha+ta));

}

}

**Question 50**

import java.util.\*;

class Example {

public static void main(String args[]) {

Scanner input = new Scanner(System.in);

System.out.print("Enter angle a: ");

int a = input.nextInt();

System.out.print("Enter angle a: ");

int b = input.nextInt();

System.out.print("Enter angle a: ");

int c = input.nextInt();

//Check angles more than 0

if(a==0||b==0||c==0){

System.out.println("triangle can not be formed");

}else if((a+b+c)==180){

System.out.println("triangle can be formed");

}else{

System.out.println("triangle can not be formed");

}

}

}