**Question 1**

import java.time.LocalDate;

import java.time.LocalTime;

public class dateTime {

public static void main(String[] args) {

LocalDate date=LocalDate.now();

LocalTime time=LocalTime.now();

System.out.println("Date : "+date);

System.out.println("Time : "+time);

}

}

**Question 2**

import java.util.\*;

public class volume {

public static void main(String args[])

{

int r, h;

Scanner sc = new Scanner(System.in);

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

r = sc.nextInt();

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

h = sc.nextInt();

double V= (3.14)\*(r\*r\*h);

System.out.print("Volume = "+V);

}

}

**Question 3**

public class discountAmt {

public static void main(String[] args) {

double discount=0.12\*50;

double price = 50-discount;

System.out.println("The discount amount : "+discount);

System.out.println("The Selling Price : "+price);

}

}

**Question 4**

import java.util.\*;

public class asciival {

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

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

char c = sc.next().charAt(0);

int a = c;

System.out.println("ASCII value of " + c + " : " + a);

}

}

**Question 5**

import java.util.\*;

public class perfectSquare {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

double n=sc.nextDouble();

double s= Math.sqrt(n);

if((s-Math.floor(s))==0)

{

System.out.println("Perfect Square");

}

else

{

System.out.println("Not a Perfect Square");

}

}

}

**Question 6**

import java.util.\*;

public class leapyr {

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

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

int y = sc.nextInt();

if(y%400 ==0)

System.out.println(" Leap year");

else if(year%100==0)

System.out.println(" Not a leap year");

else if(year%4 ==0)

System.out.println(" Leap year");

else

System.out.println(" Not a leap year");

}

}

**Question 7**

import java.util.\*;

public class average {

public static void main(String[] args) {

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

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int i;

double sum=0;

int[] a=new int[n];

System.out.print("Enter the array elements : ");

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

{

a[i]=sc.nextInt();

}

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

{

sum=a[i]+sum;

}

double avg=sum/n;

System.out.println("Average = "+avg);

}

}

**Question 8**

import java.io.File;

import java.io.IOException;

public class CreateFile {

public static void main(String[] args) {

try {

File myObj = new File("file1.txt");

if (myObj.createNewFile()) {

System.out.println("File created: " + myObj.getName());

}

else {

System.out.println("File already exists.");

}

} catch (IOException e) {

System.out.println("An error occurred.");

}

}

}

**Question 9**

import java.io.FileOutputStream;

public class fileoutputStream {

public static void main(String[] args) {

try {

FileOutputStream ft=new FileOutputStream("C:\\Users\\USER\\Desktop\\text.txt");

ft.write(76);

ft.close();

} catch ( Exception e) {

e.printStackTrace();

}

}

}

**Question 10**

import java.io.\*;

import java.util.\*;

class CreateFile {

public static void main(String arg[]) throws Exception {

Scanner sc = new Scanner(System.in);

System.out.print("Provide source file name :");

String sfile = sc.next();

System.out.print("Provide destination file name :");

String dfile = sc.next();

FileReader fin = new FileReader(sfile);

FileWriter fout = new FileWriter(dfile, true);

int c;

while ((c = fin.read()) != -1) {

fout.write(c);

}

fin.close();

fout.close();

}

}

**Question 11**

import java.util.\*;

public class uppercase {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

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

String s=sc.nextLine();

String upper=s.toUpperCase();

System.out.print("String in Uppercase :");

System.out.println(upper);

}

}

**Question 12**

import java.util.\*;

class Strcon

{

public static void main(String args[])

{

String str1,str2;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the 1st string");

str1=sc.nextLine();

System.out.println("Enter the 2nd string");

str2=sc.nextLine();

System.out.println("Concatenated String: ");

System.out.println(str1.concat(str2));

}

}

**Question 13**

import java.util.\*;

public class countWords {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

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

String s=sc.nextLine();

String[] words=s.split(" ");

System.out.println("The number of words is : "+words.length);

}

}

**Question 14**

import java.util.\*;

class checkcontains{

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

String str1 = scanner.nextLine();

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

String str2 = scanner.nextLine();

boolean ans=false;

for (int i = 0; i < str1.length() - 1; i++)

{

if (str1.charAt(i) == str2.charAt(0))

{

for (int j = 0; j < str2.length(); j++)

{

if ((i + j) < str1.length() && (str2.charAt(j) == str1.charAt(i + j)) && (j == str2.length() - 1) ){

ans = true;

break;}

}

}

}

System.out.println("If the first string contains the second one? "+is\_str\_contains(str1, str2));

}

}

**Question 15**

public class permutationString {

public static void main(String[] args) {

permutation(" ","GOD");

}

private static void permutation(String string, String string2) {

if(string2.isEmpty())

{

System.out.println(string+string2);

}

else

{

for(int i=0;i<str2.length();i++)

{

permutation(string+string2.charAt(i),string2.substring(0, i)+string2.substring(i+1, string2.length()));

}

}

}

}

**Question 16**

import java.util.\*;

public class duplicatechars

{

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String string1=sc.nextLine();

int count;

char string[] = string1.toCharArray();

System.out.println("Duplicate characters in a given string: ");

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

count = 1;

for(int j = i+1; j <string.length; j++) {

if(string[i] == string[j] && string[i] != ' ') {

count++;

string[j] = '\_';

}

}

if(count > 1 && string[i] != '\_')

System.out.println(string[i]);

}

}

}

**Question 18**

import java.util.Scanner;

public class ternarylargest

{

public static void main(String[] args)

{

int num1, num2, num3, res;

Scanner sc = new Scanner(System.in);

System.out.println("Enter three numbers:");

num1 = sc.nextInt();

num2 = sc.nextInt();

num3 = sc.nextInt();

res = num3 > (num1 > num2 ? num1 : num2) ? num3 : ((num1 > num2) ? num1 : num2);

System.out.println("Largest :"+res);

}

}

**Question 19**

import java.util.\*;

public class uglyNumber {

public static void main(String[] args) {

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

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int t=0;

while(n!=1)

{

if(n%5==0)

{

n=n/5;

}

else if(n%3==0)

{

n=n/3;

}

else if(n%2==0)

{

n=n/2;

}

else

{

System.out.println("Not an Ugly Number.");

t=1;

break;

}

}

if(t==0)

{

System.out.println("Ugly Number.");

}

}

}

**Question 20**

public class replacea{

public static void main(String args[]){

String s1="I am always ready to learn although I do not always like being taught.";

String replaceString=s1.replace('a','$');

System.out.println(replaceString);

}

}