JAVA Programming Questions

Question-1:

class reverse {

public static void main (String[] args) {

String str= "Hello java T point", nstr="";

char ch;

System.out.print("Original word: ");

System.out.println(str);

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

{

ch= str.charAt(i);

nstr= ch+nstr;

}

System.out.println("Reversed word: "+ nstr);

}

}

Question-2:

class prime

{

static boolean isPrime(int n){

if(n==1||n==0)return false;

for(int i=2; i<n; i++){

if(n%i==0)return false;

}

return true;

}

public static void main (String[] args)

{

int N = 20;

for(int i=1; i<=N; i++){

if(isPrime(i)) {

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

}

}

}

}

Question-3:

class table

{

public static void main(String arg[])

{

for(int i=2;i<6;i++){

int n = i;

for (int j = 1; j <= 10; ++j)

System.out.println(n + " \* " + j +

" = " + n \* j);

}

System.out.println();

}

}

Question-4:

public class EvenOddBetween1And20

{

public static void main(String[] args)

{

System.out.println("Even numbers between 1 and 20: ");

for(int a = 1; a <= 20; a++)

{

if(a % 2 == 0)

{

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

}

}

System.out.println("\nOdd numbers between 1 and 20: ");

for(int a = 1; a <= 20; a++)

{

if(a % 2 != 0)

{

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

}

}

}

}

Question-5:

import java.util.\*;

class Student\_Division

{

public static void main(String[] args)

{

Scanner input = new Scanner(System.in);

System.out.println("Enter The Five Subject Marks :");

int m1 = input.nextInt();

int m2 = input.nextInt();

int m3 = input.nextInt();

int m4 = input.nextInt();

int m5 = input.nextInt();

int tot = m1+m2+m3+m4+m5;

float per = tot/5;

System.out.println("Total :"+tot);

System.out.println("Percentage :"+per);

if(per>=60)

{

System.out.println("First Division.");

}

else if(per>=50 && per<=59)

{

System.out.println("Second Division.");

}

else if(per>=40 && per<=49)

{

System.out.println("Third Division.");

}

else

{

System.out.println("Fail.");

}

}

}

Question-6:

class factorial

{

static int factorial(int n)

{

if (n == 0)

return 1;

return n\*factorial(n-1);

}

public static void main(String[] args)

{

int num = 8;

System.out.println("Factorial of "+ num + " is " + factorial(8));

}

}

Question-7:

public class swap {

public static void main(String[] args)

{

int x = 100, y = 200;

System.out.println("Before Swap");

System.out.println("x = " + x);

System.out.println("y = " + y);

int temp = x;

x = y;

y = temp;

System.out.println("After swap");

System.out.println("x = " + x);

System.out.println("y = " + y);

}

}

Question-8:

import java.util.Scanner;

public class LeapYear {

public static void main(String[] args){

int year;

System.out.println("Enter an Year :: ");

Scanner sc = new Scanner(System.in);

year = sc.nextInt();

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

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

else

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

}

}

Question-9:

import java.util.\*;

public class diamondstar

{

public static void main(String args[])

{

int n, i, j, space = 1;

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

Scanner s = new Scanner(System.in);

n = s.nextInt();

space = n - 1;

for (j = 1; j<= n; j++)

{

for (i = 1; i<= space; i++)

{

System.out.print(" ");

}

space--;

for (i = 1; i <= 2 \* j - 1; i++)

{

System.out.print("\*");

}

System.out.println("");

}

space = 1;

for (j = 1; j<= n - 1; j++)

{

for (i = 1; i<= space; i++)

{

System.out.print(" ");

}

space++;

for (i = 1; i<= 2 \* (n - j) - 1; i++)

{

System.out.print("\*");

}

System.out.println("");

}

}

}

Question-10:

import java.util.\*;

class pants {

public static void main(String[] args) {

Scanner cs=new Scanner(System.in);

int row\_size = 5;

int out,in;

int print\_control\_x=row\_size;

int print\_control\_y=row\_size;

for(out=1;out<=row\_size;out++)

{

for(in=1;in<row\_size\*2;in++)

{

if(in>print\_control\_x && in<print\_control\_y)

{

System.out.printf(" ");

}

else

{

System.out.printf("\*");

}

}

print\_control\_x--;

print\_control\_y++;

System.out.println();

}

}

}

Question-11:

import java.util.\*;

class inverted\_pants {

public static void main(String[] args) {

int n = 5;

for(int row = n ; row >= 0 ; row--) {

// Prints first half of the stars

for(int col = n ; col > row ; col--) {

System.out.print("\* ");

}

// Prints space in between

for(int col = 1 ; col <= 4 \* row ; col++) {

System.out.print(" ");

}

// Prints second half of the stars

for(int col = row + 1 ; col <= n ; col++) {

System.out.print("\* ");

}

// Goes to a new line

System.out.println();

}

}

}

Question-12:

import java.util.\*;

class thirdlargest{

static void thirdLargest(int arr[], int arr\_size) {

if (arr\_size < 3) {

System.out.printf(" Invalid Input ");

return;

}

int first = arr[0], second = Integer.MIN\_VALUE,

third = Integer.MIN\_VALUE;

for (int i = 1; i < arr\_size; i++) {

if (arr[i] > first) {

third = second;

second = first;

first = arr[i];

}

else if (arr[i] > second && arr[i]<first) {

third = second;

second = arr[i];

}

else if (arr[i] > third && arr[i]<second) {

third = arr[i];

}

}

System.out.printf("The third Largest element is %d\n", third);

}

public static void main(String []args) {

int arr[] = {22, 100, 44, 11, 22, 100, 77, 44, 11};

int n = arr.length;

thirdLargest(arr, n);

}

}

Add two matrices:

import java.util.\*;

class addtwomatrices{

static void printMatrix(int M[][],

int rowSize,

int colSize)

{

for (int i = 0; i < rowSize; i++) {

for (int j = 0; j < colSize; j++)

System.out.print(M[i][j] + " ");

System.out.println();

}

}

static int[][] add(int A[][], int B[][],

int size)

{

int i, j;

int C[][] = new int[size][size];

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

for (j = 0; j < size; j++)

C[i][j] = A[i][j] + B[i][j];

return C;

}

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("\nenter the size of matrix");

int size = sc.nextInt();

int A[][] = new int[size][size];

for(int i=0;i<size;i++){

System.out.print("\nenter the elements of "+ (i+1) +" row of matrix");

for(int j=0;j<size;j++){

A[i][j]=sc.nextInt();

}

}

System.out.println("\nMatrix A:");

printMatrix(A, size, size);

int B[][] = new int[size][size];

for(int i=0;i<size;i++){

System.out.print("\nenter the elements of "+ (i+1) +" row of matrix");

for(int j=0;j<size;j++){

B[i][j]=sc.nextInt();

}

}

// Print the matrices B

System.out.println("\nMatrix B:");

printMatrix(B, size, size);

// Add the two matrices

int C[][] = add(A, B, size);

// Print the result

System.out.println("\nResultant Matrix:");

printMatrix(C, size, size);

}

}

Right triangle with stars:

import java.util.\*;

class righttriangle{

public static void main(String[] args){

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

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

for(int j=0;j<=i;j++){

System.out.print("\* ");

}

System.out.println();

}

}

}