Java Questions

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1)

import java.util.\*;

public class code1

{

public static void main(String[] args)

{

Scanner sc= new Scanner(System.in); //System.in is a standard input stream

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

String str= sc.nextLine(), revstr = "";

char ch;

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

{

ch = str.charAt(i);

revstr = ch+revstr;

}

System.out.print("Reversed String: " + revstr);

}

}

2)

public class code2

{

public static void main(String[] args)

{

System.out.print("Prime numbers between 1 and 20 are ");

for(int i=2;i<=20;i++)

{

int count = 1;

for(int j=3;j<i;j++)

{

if(i%j == 0)

{

count++;

break;

}

}

if(count == 1)

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

}

}

}

3)

public class code3

{

public static void main(String[] args)

{

for(int i=2;i<=5;i++)

{

System.out.println(i+" Table");

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

System.out.println(i+" x "+j+" = "+i\*j);

System.out.println("\n");

}

}

}

4)

public class code4

{

public static void main(String[] args)

{

System.out.print("Even numbers between 1 and 20 are ");

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

{

if(i%2 == 0)

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

}

System.out.println("");

System.out.print("Odd numbers between 1 and 20 are ");

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

{

if(i%2 != 0)

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

}

}

}

5)

import java.util.\*;

public class code5

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.print("Enter the student percentage: ");

int per = sc.nextInt();

if(per >= 75)

System.out.print("Grade: Distinction");

else if(per >= 60)

System.out.print("Grade: First Division");

else if(per >= 50)

System.out.print("Grade: Second Division");

else if(per >= 40)

System.out.print("Grade: Third Division");

else

System.out.print("Grade: Fail");

}

}

6)

public class code6

{

public static void main(String[] args)

{

System.out.print("Factorial of 8 is ");

int ans = 1;

for(int i=2;i<=8;i++)

ans \*= i;

System.out.print(ans);

}

}

7)

public class code7

{

public static void main(String[] args)

{

int a = 5, b = 10;

a = a+b;

b = a-b;

a = a-b;

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

}

}

8)

import java.util.\*;

public class code8

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

int year = sc.nextInt();

if(year%400 == 0)

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

else if(year%100 == 0)

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

else if(year%4 == 0)

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

else

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

}

}

9)

public class code9

{

public static void main(String[] args)

{

for(int i=1;i<=6;i++)

{

for(int j=6;j>=i;j--)

System.out.print(" ");

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

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

System.out.println();

}

for(int i=5;i>=1;i--)

{

for(int j=6;j>=i;j--)

System.out.print(" ");

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

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

System.out.println();

}

}

}

10)

public class code10

{

public static void main(String[] args)

{

for(int i=1;i<=5;i++)

{

for(int j=i;j<=5;j++)

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

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

System.out.print(" ");

for(int j=i;j<=5;j++)

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

System.out.println();

}

}

}

11)

public class code11

{

public static void main(String[] args)

{

for(int i=5;i>0;i--)

{

for(int j=i;j<=5;j++)

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

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

System.out.print(" ");

for(int j=i;j<=5;j++)

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

System.out.println();

}

}

}

12)

public class code12

{

public static void main(String[] args)

{

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

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

for(int i=1;i<9;i++)

{

if(arr[i] > first)

{

third = second;

second = first;

first = arr[i];

}

else if(arr[i] > second)

{

third = second;

second = arr[i];

}

else if(arr[i] > third)

third = arr[i];

}

System.out.print("Third largest of the array is "+third);

}

}

13)

import java.util.\*;

class class1

{

public int sum(int a, int b)

{

return a+b;

}

}

class class2 extends class1

{

}

class class3

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

int a = sc.nextInt();

System.out.print("b = ");

int b = sc.nextInt();

class2 x = new class2();

System.out.print("Sum(a+b) = " + x.sum(a,b));

}

}

14)

interface DivAdd

{

int calcDivSum(int n);

}

class DivAddImpl implements DivAdd

{

@Override

public int calcDivSum(int n)

{

int sum = 0;

for(int i=1;i<=n;i++)

{

if(n%i == 0)

sum += i;

}

return sum;

}

}

public class code2

{

public static void main(String[] args)

{

DivAddImpl divAdd = new DivAddImpl();

int n = 8;

int sum = divAdd.calcDivSum(n);

System.out.println("Divisor sum of "+n+" is "+sum);

}

}

15)

import java.util.\*;

public class code3

{

public static void main(String[] args)

{

String[] str = {"-100","50",".12","0.12","0","000.000"};

Arrays.sort(str, new Comparator<String>()

{

@Override

public int compare(String s1, String s2)

{

double a = Double.parseDouble(s1);

double b = Double.parseDouble(s2);

return Double.compare(b,a);

}

});

for(String s: str)

System.out.println(s);

}

}

16)

import java.util.\*;

public class sample3

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

try

{

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

int a = sc.nextInt();

System.out.print("b = ");

int b = sc.nextInt();

int res = a/b;

System.out.print("a/b = " + res);

}

catch(ArithmeticException e)

{

System.out.println("Division by zero is not possible: " + e);

}

catch(Exception e)

{

System.out.println("An error occured: " + e);

}

finally

{

sc.close();

}

}

}

17)

import java.util.\*;

class SBIAcc

{

int prem\_amnt =10000;

int jundhan\_amnt=100;

public void deposit()

{

System.out.println("Money Deposited");

}

public void withdraw(int Awithdraw){}

public void openAccount(int num){}

}

class premAcc extends SBIAcc

{

SBIAcc sc = new SBIAcc();

int x = sc.prem\_amnt;

public void openAccount(int num)

{

if(num>=5000)

System.out.println("Premium Account opened");

else

System.out.println("Insufficient Amount (\*To open min balance should be 5000\*)");

}

public void withdraw(int Awithdraw)

{

int sum=x-Awithdraw;

if(sum<5000)

{

sum+=Awithdraw;

System.out.println("Insufficient Balance");

}

else

System.out.println("Successfully Withdrawn");

}

}

class jundhanAccount extends SBIAcc

{

SBIAcc sc = new SBIAcc();

int x = sc.jundhan\_amnt;

public void openAccount(int num)

{

if(num>=0)

System.out.println("Jundhan Account opened");

else

System.out.println("Insufficient Balance!!");

}

public void withdraw(int Awithdraw){

int sum=x-Awithdraw;

if(sum<0)

{

sum+=Awithdraw;

System.out.println("Insufficient Balance");

}

else

System.out.println("Successfully Withdrawn");

}

}

class code5

{

public static void main (String[] args)

{

System.out.println("SBI Welcomes you...");

System.out.println("To create Premium Account Press 1");

System.out.println("To create Jundhan Account Press 2");

System.out.println("For other services Press 3");

Scanner sc =new Scanner(System.in);

int num = sc.nextInt();

if(num==1)

{

System.out.println("Enter Amount: ");

int am = sc.nextInt();

premAcc pa = new premAcc();

pa.openAccount(am);

}

else if(num==2)

{

System.out.println("Enter Amount: ");

int am = sc.nextInt();

jundhanAccount ja = new jundhanAccount();

ja.openAccount(am);

}

else

{

System.out.println("Press 4 to Deposit");

System.out.println("Press 5 to Withdraw" );

int num1 = sc.nextInt();

{

if(num1== 4)

{

System.out.println("Enter Amount");

int s= sc.nextInt();

SBIAcc sa = new SBIAcc();

sa.deposit();

}

if(num1== 5)

{

System.out.println("Press 8 to withdraw from Premium account");

System.out.println("Press 9 to withdraw from Jundhan account ");

int num2 =sc.nextInt();

if(num2==8)

{

System.out.println("Enter Amount:");

int num3 = sc.nextInt();

premAcc pa = new premAcc();

pa.withdraw(num3);

}

else if(num2==9)

{

System.out.println("Enter Amount:");

int num3 = sc.nextInt();

jundhanAccount ja = new jundhanAccount();

ja.withdraw(num3);

}

}

}

}

System.out.println("Your task is ended succesfully!!");

}

}