Day 1: EASY Qustions CSA0988

1 to 10 JAVA PROGRAMMING

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CSE

1)Write a program to reverse a word using loop? (Not to use inbuilt functions)

Sample Input:

String: TEMPLE

Sample Output:

Reverse String: ELPMET

Code:

**import** java.util.\*;

**public** **class** reverseword

{

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

String name=input.nextLine();

String empty="";

**int** len=name.length();

**for**(**int** i=len-1;i>=0;i--)

{

empty=empty+name.charAt(i);

}

System.***out***.print(empty);

}

}

Output :



2)Write a program to check the entered user name is valid or not. Get both the inputs from the user.

Sample Input :

Enter the user name: Saveetha@789

Reenter the user name: Saveetha@123

Sample Output:

User name is Invalid

Code :

**import** java.util.\*;

**public** **class** validornot

{

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

String s1=input.nextLine();

String s2=input.nextLine();

**if**(s1==s2)

System.***out***.print("user name valid");

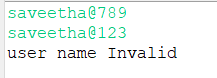
**else**

System.***out***.print("user name Invalid");

}

}

Output :



3)Write a program to reverse a number using loop?(Get the input from user)

Sample Input:

Number: 14567

Sample Output:

Reverse Number: 76541

Code :

**import** java.util.\*;

**public** **class** reversenumber

{

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

**int** n=input.nextInt();

**int** rev=0;

**while**(n!=0)

{

**int** rem=n%10;

rev=rev\*10+rem;

n=n/10;

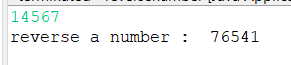
}

System.***out***.println("reverse a number : "+rev);

}

}

Output :



4)Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible, then print how many years are left to be eligible.

Sample Input:

Enter your age: 7

Sample output:

You are allowed to vote after 11 years

Code :

**import** java.util.\*;

**public** **class** voteornot

{

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

**int** age=input.nextInt();

**if**(age>18)

System.***out***.print("you are eligible for vote");

**else**

**if**(age<=0)

System.***out***.print("Enter the age correctly");

**else**

System.***out***.print("you are allowed to vote after"+(18-age));

}

}

Output :



**5.** Find the LCM and GCD of n numbers?

Sample Input:

N value = 2

Number 1 = 16

Number 2 = 20

Sample Output:

LCM = 80

GCD = 4

Code :

**import** java.util.Scanner;

**public** **class** LCMandGCD

{

**static** **int** gcd(**int** a,**int** b)

{

**if**(a==0)

**return** b;

**return** *gcd*(b%a,a);

}

**static** **int** findgcd(**int** a[], **int** n)

{

**int** res=a[0];

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

{

res=*gcd*(res,a[i]);

**if**(res==1) **return** 1;

}

**return** res;

}

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

**int** n=input.nextInt();

**int** a[]=**new** **int**[n];

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

{

a[i]=input.nextInt();

}

System.***out***.println(*findgcd*(a,n));

**int** gcd=*findgcd*(a,n);

**int** mul=1;

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

{

mul=mul\*a[i];

}

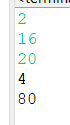
**int** lcm=mul/gcd;

System.***out***.println(lcm);

}

}

Output :



6)Write a program to print Right Triangle Star Pattern

Sample Input::

n = 5

Output:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

Code :

**import** java.util.\*;

**public** **class** RightTriangle

{

**public** **static** **void** main(String[] args)

{

Scanner input = **new** Scanner(System.***in***);

**int** n=5;

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

{

**for**(**int** j=0;j<=n-i;j++)

{

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

}

**for**(**int** k=1;k<=i;k++)

{

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

}

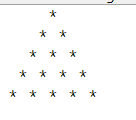
System.***out***.println();

}

}

}

Out put :



7)Write a program to print the below pattern?

1

1 1

1 2 1

1 3 3 1

1 4 6 4 1

Code :

**import** java.util.\*;

**public** **class** pattern

{

**public** **static** **void** main(String[] args)

{

Scanner input=**new** Scanner(System.***in***);

**int** n=input.nextInt();

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

{

**int** a=1; **for**(**int** s=1;s<=n-i;s++)

{

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

}

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

{

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

a=a\*(i-j)/j;

}

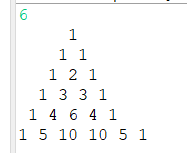
System.***out***.println();

}

}

}

0utput :



**8.** Write a program using function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered 12 percent rate of interest; for all other customers, the ROI is 10 percent.

Sample Input:

Enter the principal amount: 200000

Enter the no of years: 3

Is customer senior citizen (y/n): n

Sample Output:

Interest: 60000

CODE :

**import** java.util.\*;

**public** **class** simpleintrest {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Scanner input = **new** Scanner(System.***in***);

**int** pri=input.nextInt();

**int** year=input.nextInt();

**char** age=input.next().charAt(0);

**double** interest=0.0;

**if**(age=='y')

{

interest=(pri\*year\*0.12)/100;

System.***out***.print(interest);

}

**else**

{

interest=(pri\*year\*0.1)/100;

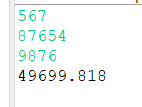
System.***out***.print(interest);

}

}

}

OUT PUT :



**9.** Java Program to Find Even Sum of Fibonacci Series Till number N?

Sample Input: n = 4

Sample Output: 33

(N = 4, So here the fibonacci series will be produced from 0th term till 8th term:0, 1, 1, 2, 3, 5, 8, 13, 21

Sum of numbers at even indexes = 0 + 1 + 3 + 8 + 21 = 33)

CODE :

**import** java.util.\*;

**public** **class** fibonncci {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Scanner input = **new** Scanner(System.***in***);

**int** n=input.nextInt();

**int** a1=0,a2=1,a3;

// int a[]=new int[50];

**int** sum=0;

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

{

// a[i]=a1;

// System.out.print(a[i]+" ");

System.***out***.print(a1+" ");

sum = sum + a1;

a3=a1+a2;

a1=a2;

a2=a3;

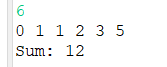
}

System.***out***.println("\nSum: "+sum);

}

}

OUTPUT :



10)Write a program to print the numbers from M to N by skipping K numbers in between?

Sample Input:

M = 50

N = 100

K = 7

Sample Output:

50, 58, 66, 74, …..

CODE :

**import** java.util.\*;

**public** **class** skipping\_k\_numbers {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Scanner input = **new** Scanner(System.***in***);

**int** m=input.nextInt();

**int** n=input.nextInt();

**int** k=input.nextInt();

**for**(**int** i=m;i<=n;i=i+k+1)

{

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

}

}

}

OUTPUT :

