

ASSIGNMENT-1

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JAVA PROGRAMMING

CEA 0985

1. Sum of no. upto n

import Java.util.*;
class Sum {
 public static void main (String arap []) {
 Scanner sc = new Scanner (System.in);
 int n = sc.nextInt();
 int sum = 0;

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

sum = sum + i;

}

System.out.println ("Sum is :" + sum);

}

}

Input :- n = 10

Output :-
Sum is 55.

2. Prime number

Import Java.util.*;

class prime {
 public static void main (String args []) {

Scanner sc = new Scanner (System.in);

int Count = 0;

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

if (n+i==0) {

Count++;

}

}

if (Count == 2) {

System.out.print ("prime"); }

3. GCD and LCM:

```
class GCD_LCM {
```

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

```
        int a=2;  
        int b=4;  
        int temp;  
        while (b!=0) {
```

```
            temp=b;
```

```
            b=a%b;
```

```
            a=temp;
```

```
}
```

```
        int gcd=a;
```

```
        int LCM=(a*b/gcd);
```

```
        System.out.println ("GCD "+gcd);
```

```
        System.out.println ("LCM "+LCM);
```

```
}
```

```
}.
```

4. Reverse of a number:-

```
class Reverse_of_number {
```

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

```
        int n=341;
```

```
        int rev=0;
```

```
        while (n>0) {
```

```
            i=n%10;
```

```
            rev=rev*10+i;
```

```
            n=n/10;
```

```
.
```

```
        System.out.println ("Reversed number is;" +rev);
```

```
.
```

```
.
```

Output: 143

Armstrong number:-

```
class armstrong {  
    public static void main (String args) {  
        int n = 153;  
        int temp = n;  
        while (n > 0) {  
            i = n % 10;  
            if (sum == temp) {  
                System.out.print ("Armstrong");  
            }  
            System.out.print ("Not an Armstrong");  
        }  
    }  
}
```

6. palindrome

```
class palindrome {  
    public static main (String args[]) {  
        int n = 12321;  
        int rev = 0;  
        while (n > 0) {  
            i = n % 10;  
            rev = rev * 10 + i;  
            n = n / 10;  
        }  
        if (rev == n) {  
            System.out.print (n ("palindrome"));  
        }  
        else {  
            System.out.println ("not a palindrome");  
        }  
    }  
}
```

7. sum of digits:

```
class sum of digits {  
    public static void main (String args[]) {  
        int n=123;   
        if (sum == temp) if (sum == temp) {  
            System.out.println ("String");  
        }  
        else {  
            System.out.println ("Not");  
        }  
    }  
}
```

8. Sum of even-odd;

```
class sum of even-odd {  
    public static void main (String args[]) {  
        int n=10;   
        sum=0, sum=0;  
        for (int i=1; i<n; i++) {  
            if (i%2==0)  
            {  
            }  
            else {  
                sum+=i  
            }  
        }  
        System.out.println ("Sum"+sum);  
    }  
}
```

9. Leap year.

```
class leap year {  
    public static void main (String args[]) {  
        int year = 2024;  
        if (year % 4 == 0 & year % 400 == 0)  
        else {  
            System.out.println ("Not a leap year");  
        }  
    }  
}
```

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Divisible by 5 and 7 upto n;

```
class Divisibility {
```

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

```
int n=100;
```

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

```
if (i%5 == 0 & i%7 == 0) {
```

```
System.out.println(i);
```

```
}
```

```
y
```

```
y
```

```
y.
```

```
out put :- 35, 70
```

11

perfect number:-

```
class perfect {
```

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

```
int sum=0;
```

```
int n=28;
```

```
int o=n;
```

```
for = 1; i<n; i++) {
```

```
if (n/i*i == 0) {
```

```
sum = sum + i;
```

```
}
```

```
3.
```

```
if (sum == o) {
```

```
System.out.println("perfect");
```

```
}
```

```
else {
```

"in loop"

```
System.out.println("in loop for ");
```

```
}
```

```
4
```

```
3
```

output:- perfect.

12 Even or odd :-

```
class even - odd {  
    static void main (String args []) {  
        int n = 400;  
        if (n % 2 == 0) {  
            System.out . print ("ODD");  
        }  
        else  
            System.out . print ("EVEN");  
    }  
}
```

Output :- Even.

13 String number

```
class string number {  
    public static void main (String args []) {  
        int n = 145;  
        int temp = n;  
        rem = n % 10;  
        Fact = 1;  
        for (i = 1; i <= n; i++) {  
            Fact = Fact * i;  
        }  
        if (sum == temp) {  
            System.out.print ("string");  
        }  
    }  
}
```

14 Celsius to Fahrenheit:-

```
class temperature {  
    public static void main (String args []) {  
        double Celsius = 39.0;  
        System.out . println (Farenheat);  
        System.out . println ("Celsius");  
        System.out . println ("Farenheat");  
    }  
}
```

Output :- 102.2

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Binary To Decimal.

```
class BinaryToDecimal {
```

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

```
        String binaryString = "1010";
```

```
        int decimal = Integer.parseInt(binaryString);
```

```
        System.out.print(decimal);
```

```
}
```

```
}
```

Output:- 10

16.

Decimal to Binary.

```
class DecimalToBinary {
```

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

```
        int decimal = 10;
```

```
        String binary = Integer.toBinaryString(decimal);
```

```
        System.out.println(binary);
```

```
}
```

```
}
```

Output:-

1010.

12) Fahrenheit to Celsius :-

```
class Temperature{  
    public static void main (String args[]){  
        double fahrenheit = 162.2;  
        double celsius = (fahrenheit - 32) * 5/9;  
        System.out.println(celsius);  
    }  
}
```

Output :- 89.0.

(8) Addition of 2 numbers.

```
class Addition of 2 numbers  
public static void main (String args[]){  
    int a=2;  
    int b=3;  
    int c=a+b;  
    System.out.println("Sum is "+c);  
}
```

Output :-

Sum is 5.

Remote Server
Earth Online Sum