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CSA099
Java Programming
24.7.24

# Easy Level Program:

1. Reverse a word using loop:-

```
public class reverse{
    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>=a; i--){
            empty = empty + name.charAt(i);
        }
        System.out.println(empty);
```

2. Username valid or not:

```
public class username {
    public static void main (String[], args){
        Scanner input = new Scanner (System.in);
        String s1 = input.next line();
        String s2 = input.next line();
        if (s1==s2){
            System Out.println ("Valid username")
        }
        else {
            system out.println ("Invalid username")
        }
    }
}
```

3, Reverse a number using loop:

```
public class reverse {
    public static void main (String [], args) {
        int num = 123;
        int rev = 0;
        while (num != 0){
            int rem = num%10;
            rev = rev*10+rem;
            num/= 10
        }
        System.out.println(rev);
    }
}
```

4. Eligible to vote:

```
public class vote{
    public static void main (String [], args){
        int age = 18;
        if (age >18){
            System.out.println("Eligible to vote");
        }
        else {
            System.out.println("Non eligible to V
        }
}
```

5. ~~LCM and GCD~~ Fibnacci sum :

```
public class Fibnacci sum {
    public static void main (String [], args){
        int n = input.next Line();
        int a1 = 0, a2 = 1, a3 =
        int a [] = new int [50];
        for (int i = 0 ; i < 10 ; i++){
            a [i] = a1;
            System.out.print (a[i] + " ");
            a3 = a1 + a2;
            a1 = a2;
            a2 = a3;
        }
        int sum = 0
        for (int i = 0; i <= n-2 ; i = i+2){
            sum = sum + a[i];
        }
        System.out.println(" sum : " + sum);
    }
}
```

6. Numbers :

```
public class numbers {
    public static void main (String [], args){
        int m = 50, N = 100, k = 7 ;
        for (int i = m ; i <= n ; i = i + k + 1) {
            System.out.println(i + " ");
        }
    }
}
```

7, LCM and GCD :-

```
public class GCD {
    public static void main (String [], args) {
        int x = 12, y = 24 ; smaller;
        if (x > y) {
            smaller = y;
        }
        else {
            smaller = x;
        }
        for (int i = 1; i < smaller ; i++) {
            if (x i == 0) {
                int gcd = i;
            }
        }
        System.out.println(gcd);
        System.out.println(lcm);
    }
}
```

8, Right Triangle Star Pattern:

```
Public class pattern {
    public static void main (String [] args) {
        int n = 5;
        for (int i = 1; i <= 5; i++) {
            for (int j = 0; j <= n - i ; j++) {
                System.out.println(" ");
            }
            for (int k = 0; k <= i, k++) {
                System.out.println("*");
            }
            System.out.println();
        }
    }
}
```

9, Pattern :

```
public class pattern {
    public static void main (String[], args){
        int n = 5; i, j;
        for (i = 1; i <= n; i++){
            System.out.print (" ");
        {
        for (j = i; j <= i; j++){
            System.out.print (a + " ");
            a = a * (i - j)/j;
        }
        System.out.println ();
    }
}
```

```
public class SI{
    public static void main (String[], args){
        int pri = 20000;
        int yr = 3;
        char age = input.next().charAt(0);
        double interest = 0.0;
        if (age == 'y'){
            interest = (pri * yr * 0.1)/100;
            System.out.println (interest);
        }
        else {
            interest = (pri * yr * 0.1)/100;
            system.out.println (Interest);
        }
    }
```