	Reg No : 192321148
	Name : Sathish kumar .R
	Subcode/ : CSA0993-Programming Name in Java for Application Development
	Date : 24/07/2024

1. Reverse a word using loop:-

```
Public class reverse
{
    Public static void main (String[],args)
    {
        Scanner input=new. Scanner [system.in);
        String name =input.next time();
        String empty =" ";
        int Len =name.length();
        for (int i= len-1; i>=0; i--)
        {
            empty =empty+name.charAt(i);
        }
        System.out.Print Ln (empty);
    }
}
```

input:
TEMPLE
output:
ELPMET

2. Username valid or not.

```
Public class username{
    Public static void main (string[],arg){
        String S1= input.nextLine();
        String S2= input.next fine();
        it (S1 == S2) {
            System.out.Print Pn("valid username")
        }
        else {
            System-out.Print Pn ("Invalid Password")
        }
    }
}
```

Input:
        Saveetha@4029
        Saveetha @ 4029
output:
        Valid 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);
    }
}
```

Input:
    123
Output:
    321

---

4 Eligible to vote:

```
Public class vote {
    Public static void main (String[] args){
        int age =18;
        if (ages >=18) {
            System.out. Println ("Eligible to vote");
        }
        else{
```

```
System.out.Println ("Non eligible to vote");
}
}
}
```

Input:
    18

Output:
    Eligible to vote

5. LCM & GCD:

```
Public class Gcd {
    Public static void main (string [] args) {
        int x=18, y = 54, 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);
    }
}
```

Input:
        16, 20

Output:
        Lcm 80
        Gcd = 4.

6. Right Triangle Star Pattern.

```
Public class patterns {
    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.Print (" ");
            }
            for (int k=1; k<=i; k++) {
                System.out.Print ("  ");
            }
            System.out.Println ();
        }
    }
}
```

Input:
  n=5

output:
```
        *
      * *
    * * *
  * * * *
* * * * *
```

7. 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=1; j<i; j++){
    System.out.print (at" ");
    a= a* (P-j)|j;
}
System.out.println();
}
}
```

Input:
   5

Output:

```
          1
        1   1
      1   2   1
    1   3   3   1
  1   4   6   4   1
```

8 Simple Interest:

```
Public class SI {

    public static void main (String [ ], args){
        Scanner input=new Scanner (System.in);
        int pri = 200 000;
        int yr = 3;
        char age = input.next().charAt(0);
        double interest =0.0;
        if( age == 'y'){
            interest = (pri * yr * 0.12)|100;
            System.out.println (Intrest );
        }
        else {
            interest = (pri * yr * 0.1)|100;
```

```
            System.out.println (Interest);
    }
}
Input:
      20000
       3
output.
      60000
```

9. Fibonacci Sum:

```
Public class Fibonacci Sum {
    Public static void main (String[] args) {
        int n = input.next Line ();
        int a1 = 0, a2 = 1, a33
        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 = a sum + a[i];
        }
        System.out.println ("sum:" + sum);
    }
}
```

```
Input: 4
output: 33
```

10 Number;

Public class number {

    Public (static void main (string [], args){

    Int m=50, N=100, K=7;

    for (Int P=m; P <=n; P=P+k+1) {

        System.output. Printtn (i+" ");

3^3

3^3

Input:
    50,100, 7

Output.

    50,58, 66,74...