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24:07:2024 Easy Level programming.

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>=0; i--){
          empty = empty + name.charAL(i);
     }
     System.out.println(empty);
    }
}
```

Input
TEMPLE
Output
ELPMET

2) username, valid or not:-

```
Public class username{
   Public static void main(String[], args){
    Scanner input = new Scanner(System.in);
    String s1 = input.nextline();
    String s2 = input.next Line();
    if(s1 == s2){
      System.out.println("valid username")
    }
     else{
     System.out.println("Invalid password")
    }
}
```

Input
mathan@1006
mathan@1006
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;
            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 (age>=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 = 16, 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 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.print(" ");
      }
      for(int k=; k<=i; k++){
        System.out.print("* ");
      }
      System.out.println();
    }
}
}
```

Input
n=5
output
*
* *
* * *
* * * *
* * * * *

```
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(a+" ");
 a= a*(i-j)/j;
}
system.out.println();
}
}
```

Input
5
output
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1

2) Simple Interest

```
Public class SI{
   Public static void main(String[] args){
   scanner input = new scanner(system.in);
   int prin =200000;
   int yr=3;
   char og = input.next().charAt(0);
   double intrst =0.0;
   if (og =='y'){
      intrst =(pri*yr*og*0.12)/100;
      system.out.print(intrest);
   }
else{
   intrest =(pri*yr*0.1)/100;
   system.out.println(interest);
  }
 }
}
```

Input
200000
3
n
output
60000

9) Fibanocci sum:-

```
Public class Fibanaci sum{
   Public static void main(String[]args){
   int n = input.nextline();
   int a1=1=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+2){
        sum = sum + a[i];
   }
   system.out.println("Sum: "+sum);
  }
}
```

Input = 4
output = 33

10) 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.print(i+" ");
   }
  }
}
```

Input = 50, 100, 7
output = 50, 58, 66, 74...