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Easy level programs:-

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 line ( );
        string empty = " ";
        int = len = name , length ( );
        for ( int i = len - 1 ; i >= 0 ; i - - ) {
            empty = empty + name . char at (i);
        }
        system . out. print ln ( empty );
    }
}
```

input
TEMPLE
output
ELPMET

2. username valid or not:

```
public class username {
    public start 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. print in ("valid username")
    }
    else {
        system . out. print ln ("invalid password")
    }
}
}
```

input
raveetha @ 4029
raveetha @ 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 . print in (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. point in ("Eligible to vote");

}
  else {
  system out. print in ("Non eligible to vote");
}
}}
```

input
19
output
Eligible to vote

5. LCM & GCD :-

```
public class GCD {
public static void main (String [2 args) {
    int x = 18, y = 34; smaller;
if (x>y) {
  smaller = y;
}
else {
  smaller = x;
}
for(int i = 1; i < smaller : i++ ) {
    if (x%i == 0) {
     int gcd = 1)
}
}
( system.out.println (gcd);
  system.out.println (lcm);
}
}
```

input
10, 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; j++) {
     system.out.print (" ");
  }
  for (int k = 0; k <= 1; 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 (a+" ");
     a = a (i-1) / j;
  }
    system. out. print ln ();
    }
}
```

8 simple interest:

```
   public class SI {
public. static void main (string [.]. args ) {
  scanner input = new scanner ( system. in);
   int yr = 3;
char age = input . next (). charAt (0);
 double interest = 0.0;
 if (age == 'y') {
interest = (pri "yr" age 0.12) /100;
system out . print ln ( interest );
} else {
   interest = (pri "yr" 0.1) /100;
   system out print ln (interest);
  }
}
```

input
20000
3
n
output
60000

9 Fibonacci: sum

```
public class fibannoci 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);
    }
}
```

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, 9,
output = 50, 58, 66, 74...