Ques Print alp. from 'a' to 'z'.

```
for ( int i = 97; i <= 122; i++) {
    Syso ( (char) i) ;
}
```

```
for (int i = 97; i <= 122; i++) {
    char ch = (char)i;
    System.out.println(ch);
}
```

⇒ ASCII values

'a' ⟶ 'z'

abcd
↳ 97 98 99 100

↳ 01 01 10 11

binary form

Ques

Aa _ Bb _ Cc _ .... Yy _ Zz

Hint :- for loop syntex

---

for (initiator ; condition ; incre/decre){

}

Ans

int i , j ;

for (i = 65, j = 97 ; i <= 90 && j <= 122; i++, j++){

initiator   conditions   incre.

i = 65, j = 97

char large = (char) i ;
char small = (char) j ;
System.out.print ln (large + small + " ") ;

}

```
for (int i = 65, j = 97; i <= 90 && j <= 122; i++, j++) {
    char large = (char)i;
    char small = (char)j;
    System.out.print(large + "" + small + " ");
}
```

Ques

Az _ By _ Cw _ .... Yb _ Za

Ques Input any no. and print its factors

num = 8   10
    ↳ 1, 2, 4, 8   ↳ 1, 2, 5, 10

```java
Scanner scn = new Scanner(System.in);
int num = scn.nextInt();
for (int i = 1; i <= num; i++) {
    if (num % i == 0) {
        System.out.print(i + ", ");
    }
}
```

i=1, 8%1==0 ✓
i=2, 8%2==0 ✓
i=3, 8%3==0 ✗
i=4, 8%4==0 ✓
i=5,   ✗
i=6,   ✗
i=7   ✗
i=8,   ✓

Ques Input a no. and print its **factorial**.

$$n! = n \times (n-1) \times (n-2) \times (n-3) \times \text{------} \times 2 \times 1$$

$$5! = 5 \times 4 \times 3 \times 2 \times 1$$
$$= 120$$ (n)

```java
Scanner scn = new Scanner(System.in);
int n = scn.nextInt();
int ans = 1;
for (int i = n; i >= 1; i--) {
    ans = ans * i;
}
System.out.println(ans);
```

Ques take i/p 2 number and print HCF.
(Highest common factor)

e.g.,   a = 20 , b = 8 , HCF = 4

```java
int ans = 1;
for (int i = 1; i <= a; i++) {
    if ( a % i == 0 && b % i == 0 ) {
        ans = i;
    }
}
System.out.println(ans);
```

Dry run

i=1, 20%1==0 && 8%1==0 , ans = 1
i=2, 20%2==0 && 8%2==0 , ans = 2
i=3, 20%3==0 && 8%3==0 , ans = 2
i=4, 20%4==0 && 8%4==0, ans = 4
i=5, 20%5==0 && 8%5==0 , ans = 4
i=6, 20%6==0 && 8%6==0 , ans = 4
i=7 20%7==0 && 8%7==0 , ans = 4
i=8, 20%8==0 && 8%8==0, ans = 4

H.W
Ques Input 2 no. and print its LCM.
Ques Input any digit no. and find its
      reverse.