#### print a to z

```
series: (a', b', c', ---- 3)
\int for(chox i='a'; i<='z'; i++) 
Syso(i);
Note:- compiler understand only number's
 public static void main(String[] args) {
     for (char i = 'a'; i <= 'z'; i++) {
         System.out.println(i);
```

# Print a, c, e... till the characters are less than z

```
public static void main(String[] args) {
    for (char i = 'a'; i <= 'z'; i += 2) {
        System.out.println(i);
    }
}</pre>
```

#### Print z, y, x.... till 26 characters

```
public static void main(String[] args) {
  for (char i = 'z'; i >= 'a'; i--) {
    System.out.println(i);
  }
}
```

## Print a, B, c, D, e, F, g..... 26 characters

```
servier: a, b, c, d, _ - - - - , 3
 ida
       modify the series so that every char. at odd indexes will become capital
public static void main(String[] args) {
   int idx = 0;
                                                     idn = ØXZZYZ6
   _for (char i = 'a'; i <= 'z'; i++) {
    if ( idx % 2 != 0 ) {
    System.out.println( (char)(i - 32) );
                                                    i='a', (07.2!=0)X
                                                    i='b', (17.2!=0)~
                                                    i='c', (272!=0) X
          System.out.println(i);
                                                    i = 'd', (37.21 = 0)
                                                    i= e' (47.2!=0)X
                                                    ('='f'), (57.2!=0)
                                                    i=9, (67.2!=0) \times
print, aBcDetg. ---- so on.
```

```
Exi-
for (int i=0; i++) \ell

print (i);
```

Ex:- print ("Hi");

| Descause all 3 values are optional

String str = "Rahul";

out 234

> str. length() // 5

> str. charAt(3) // 'u'

> str. charAt(5) // String Index Out Of Bound

### Print Alternate Elements of a String

```
String str = "Greekster"; i=

orealization

ors = "Greekster";

ors = "Grese";
```

code

```
Str = " abcd"
```

```
Jen = 43
```

```
public static void main(String[] args) {
   Scanner scn = new Scanner(System.in);
   String str = scn.nextLine();
   int n = str.length();
   for (int i = 0; i < n; i += 2) {
        char ch = str.charAt(i);
        System.out.print(ch);
```

### Reverse The String

Note: str = "geekster" Ly can't traverse in reverse Ly coun't use inbuilt f' ans = "netskeeg" Approach String ans = "; an = "G"; ons = "eGr"; Ops = "ce G"; an = "keeGi"; ans = "skeeGi"; am = "tskeeGr";

ans = "etskeeG";

ans = "netskee Gi";

str = "Greekster"; ans = "ee Gr" ch = 'k'am = ch + am;



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
   String str = scn.nextLine();
    int n = str.length();
   String ans = "";
    for (int i = 0; i < n; i++) {
        char ch = str.charAt(i);
        ans = ch + ans;
   System.out.println(ans);
```

### nth power of 2

$$n = 3$$
, ans =  $8 = 2^3$   
 $n = 4$ , ans =  $16 = 2^4$   
 $n = 2^n = 2 + 2 + 2 + ---$   
 $n = 2^n = 2 + 2 + 2 + ---$ 

- 1) take input n 2) create ans = 1
- 3) run the loop n no. of times 3.1)  $\underline{\text{ons}} = \underline{\text{ons}} * 2$
- 4) print aus

```
public static void main(String[] args) {
                    Scanner scn = new Scanner(System.in);
                    int n = scn.nextInt();
                    int ans = 1;
                    for (int i = 0; i < n; i++) { // n times
                        ans = ans * 2;
                    System.out.println(ans);
  \alpha n = T
i=0, (0<5) on = 1*2=2
i=1, (1<5) \vee ans = 2*2=4
(=2, (2<5)) \sim an = 4*2=8
i=3, (3<5) \vee on=8*2=16
i = 4, (4<5) on = 16*2=32
(=5, (5<5)X
```