2+2.0 = 4.0 12 + 2 = 97+2 => 99 109+3=1

## jumping character

Scanner s = new Scanner(System.in);

```
char ch = s.next().charAt(0);
if(ch >= 'a' \&\& ch <= 'w'){}
    char result = (char) (ch + 3);
    System.out.println(result);
else if(ch >= 'D' && ch <= 'Z'){
    char result = (char) (ch - 3);
    System.out.println(result);
else{
    System.out.println("Can't jump");
```

## Add if a digit

```
Ch = (5)
  Scanner s = new Scanner(System.in);
  int. ch = s.next().charAt(0);
                                    ans = (5' - 10) + 100
 char
 if(ch >= '0' && ch <= '9'){
    int ans = ch - '0' + 100;
                                            53-48 +100
    System.out.println(ans);
                                                5+100 = 105 ptp
  }
  else{
    System.out.println("This is not a digit");
  }
 in-built function
Character. get Numeric Value (ch);
ent ans = Character. get Numeric Value (cm) + (00°,
                  [ (h - 10]
                                                      54100 = 105
```

```
27 122
small to captical =
                         Scanner s =
                        char ch =
                            if(ch >= 'a' \&\& ch <= 'z'){}
                               char ans = (char) (ch-32);
                               Syso(ans);
                               //syso((char)(ch - 32));
                     else if(ch >= 'A' && ch <= 'Z'){
                        char ans = (char) (ch+32);
                               Syso(ans);
                     }
```

```
Scanner s =
    String str = s.nextLine();
    if(str.length() >= 4){
        char ch = str.charAt(3);
        Syso(ch);
    }
    else{
        Syso("Small string");
    }
}
```

```
Str = "abc"

3 > 4 F

1/p > Small

string.
```

```
String Concatination

String Concatination

Stril = "abc" Strit Str2

Stril = "abc" abc" + 4 def"

stri2 = "def" abc" + 4 def"
```

=> "abcdef"

ctel = "ab"] +

stu2 = "ab"

of P3 abub

Sh | = "mansi", sh2 = "sharna" stilt stilp Stil mansisherne Mauri

## Concatenate\_Two\_Strings

```
Scanner s = new Scanner(System.in);
String str1 = s.nextLine();
String str2 = s.nextLine();
System.out.println(str1 + str2);
```

## string concatenate 2

```
Scanner s =
    String s1
    String s2

if(s1.length() > s2.length()){
        Syso(s2 + s1 + s2);
    }
else{
    Syso(s1 + s2 + s1);
}
```

SI = "abc"
SI = "abc"
SI = "abc"
SI = "abc"

Univery Operafol. <u>t +</u> att; Incument Decrement a=atlj OC - a+ P Post --a tta he Post > value will get printed first then "un aument a= 1 a+1 = 7 > 8 bre > first iscrement then printed a=1; ++a = 8

```
public static void main(String[] args) {
                                           Output
  int a = 5;
                                         java -cp /tmp/dFjsu
  int b = a++;
  int c = ++a;
  System.out.println(b);
  System.out.println(a);
  System.out.println(c);
                                         === Code Execution
  System.out.println(++b);
                             a = 5
                                                             5
 b = a + t
 C = b + f
a = ++6
  b = t+C
                                                              6
```

Loops > med to perform a operation | task
seperatedly. Part - 200 Types. > 4 types 1 \_ 5 min lomin Jos loop s relite bog -> do-while bosp. 7 for - each

for(;;){ #all 3 au optional for loop-Syntan for (initialization); conditions; update) { 1) Statement 1=155 T 5 times "Hello" for l'int i=1; ° < 5; i+t)?

Sysol "Hello"); i=2 < 5 T 1-3 < 5 1 i=4 < 5 T こうろろう イ := 6 < 5 F Hello Allo Hello Hello

initialization - Jrom whell to start Condition -> where to stop update > how many steps you are T/J +2

now / dk.