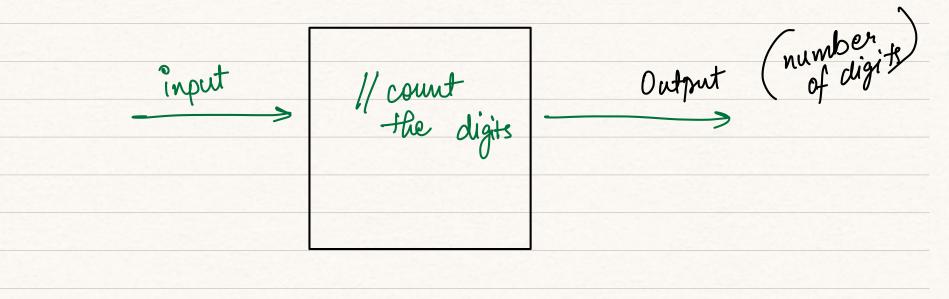
```
functions
```

count digits of a number

```
main () $
     Scanner scu - new Scanner (System. in);
          int a = Scu. next Int ();
       // count digits of a
          int count = 0;
          while (a>0) &
                count ++;
                                        Kedunancy
                 a= a/10;
                                       more lines
                                       Human error
                                       Difficult fo
         int b = scn. next Int ();
                                           maintain
         int count2 = 0;
         while (6>0) }
               court 2 ++;
                 6 = b/10;
```

Z



int count = 0

while (a > 0) \(\)

(a)

count ++; a = a/10;

function

Template

```
(output)
  octure data-type function-name (data-type input) &
               // logic to perform
               return ans;
   count-digits (int a ) {
int
                                          a = 194632
    ^{\circ}nt count = 0
    while (a >0) $
          count ++;
         a=a/10;
```

2

neturn count;

count = 6

2

```
main () $
           int n = Scn. next Int ();
     int am = count-digits (1416); // call the function S.D.P (ane);
       int x = count_digits (194632);
        _ S . D . P (x);
```

```
void -> seturn type of function that does not return
  anything
   static void sum (into, intb) ?
            S.O.Plm (a+b);
                                        Both are
                                        correct ways
   Static void sum (int a, int b) &
            S.O.Plu (atb);
            return;
```

Static int sum (int a, int b) $\frac{2}{\sqrt{a=5}}$, b=10return a+b; // 15

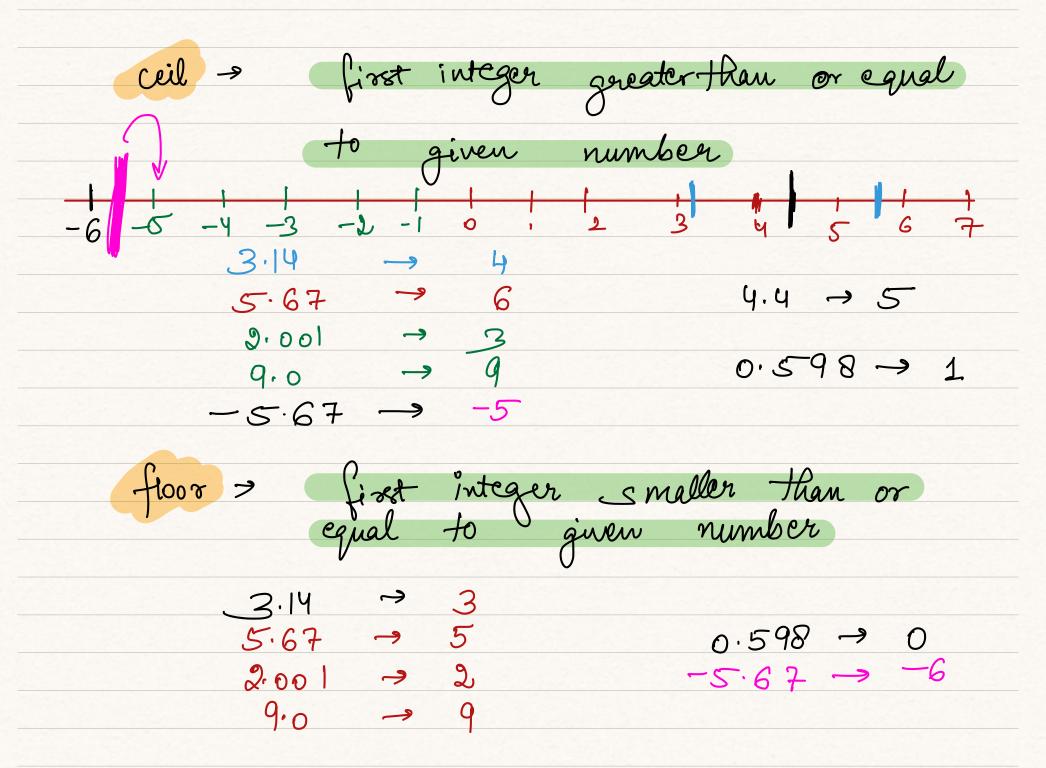
main () \$

Sum (5,10);

Z

Aus -> None Since there is no point statement Static int sum (int a, int b) $\frac{2}{3}$ Note that $\frac{1}{3}$ int $\frac{1}{$

```
Static void sum (inta, intb) &
          setum a+b;
                        // E0008
                          void. So, cannot return
       Sam (5,10);
  Static int sum (inta, intb) {
         return, a+6+10; // 5+10+10 > 25
   main () } (25)
int ans = Sun (5,10);
     5.0.P (ans);
```



Math. pow
$$(2, 4)$$
; $\rightarrow 16.0$ (2^{4})