

```
for (int i=0 ; i<=10 ; i+=2)
{
    cout << "M";
}
```

11 times
M

i = i + 2

i=0 ; i=2 ; i=4 ; ... i=10

6 times

MMM - 6 times

Switch Case

int marks = 30 ;

switch (marks)

Case 10 :

↳ cout << "Failed"; break;

Case 20 :

cout << "Average";

default :

cout << "Pass";

break ;

for (int i=0 ; i<=10 ; i++)

{ if (i==1) break;

cout << "M";

⇒

if ()
{
}
else if ()
{
}

i=0 M
i=1

continue;

for (int i=0 ; i<10 ; i++)

{ if (i==1) continue ;

cout << "M" ;

}

M

9 times

Functions.

int main() {

int n1, n2 ; n3, n4 ;

cin >> n1 >> n2 ;

cout << sum(n1, n2) ;

cin >> n3 >> n4

cout << sum(n3, n4) ;

}

void

int

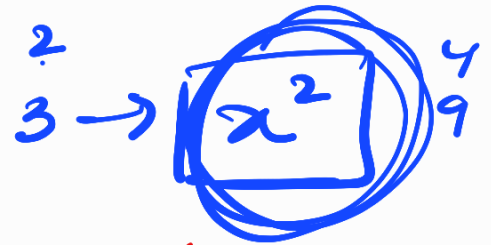
string

void

sumTwoNum (int a, int b) {

cout << a + b << endl ;

}



int ans =
sum(n1, n2)

cout << ans ;

```

int sum ( int a , int b ) {
    return ( a + b ) ;
}

```

```

void sayHi ( _ ) {
    cout << " Hello Friends " ;
}

```

y = 1

definition

```

int main ( ) {
    sayHi ( ) ;
}

```

← calling of the fn.

global , local

Recursion / Repetition

```

int i = 0
void recurse ( ) {
    cout << " Hello " << endl ;
    i ++ ;
    if ( i == 3 ) return i ;
    recurse ( ) ;
}

```

R1 i=0 Hello
 ↓ i=1 Hello
 ↓ i=2 Hello
 ↓ i=3

```
int main( ) {
    int a = 0;
    recurse( ) ;
}
```

completed

```
#include <bits/stdc++.h>
```

```
using namespace std;
int a = 0;
void recurse( ) {
    int main( ) {
```

global

```
    {
        int num;
        cin >> num;
        cout << sum of digits(num);
        return 0;
    }
```

```
int sum of digits(int num) {
```

```
    int sum = 0;
```

```
    while (num != 0) {
```

```
        int digit = num % 10;
```

```
        sum += digit;
```

```
        num = num / 10;
```

```
    }
    return sum;
}
```

~~998~~ % 10

9 + 9 + 8

$\frac{998}{10} = 99.8$

118 119 119 = 99

sum = 17 + 9 = 26

num = 9 / 10 = 0

0.9

