

C Language

Iterative Control instruction

Part-1



Saurabh Shukla (MySirG)

Agenda

- ① Iterative control statements
- ② while loop
- ③ Practice problems

Iterative Control Statements (loop)

- ① while
- ② do while
- ③ for

MainC1

{

==

while (-)

{

==

}

==

}

Keyword
↓

While

while (condition)

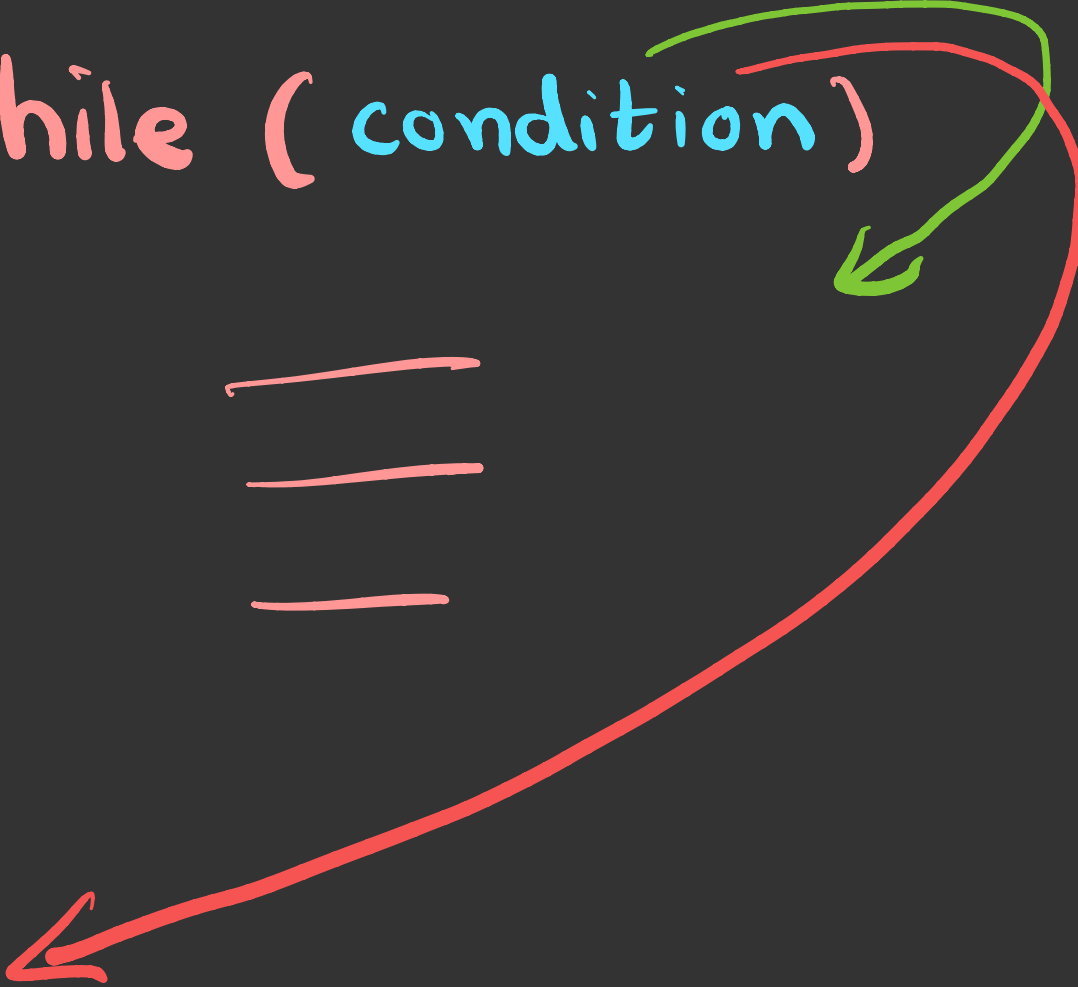
{

}

True

False

while
block



Write a program to print **MySirG** 5 times on the screen.

```
int main()
{
    int i = 1;
    while (i <= 5)
    {
        printf("MySirG");
        i++;
    }
    return 0;
}
```

initialization

Condition

i

$i = 1 \text{ to } 5$

flow

MySirG
MySirG
MySirG
MySirG
MySirG

Write a program to print first 10 natural numbers.

```
int i=1;  
while ( i <= 10)  
{  
    printf("%d", i);  
    i++;  
}
```

Write a program to print first N natural number:-

```
int n, i=1;
printf("Enter a number");
scanf("%d", &n);
while(i <= n)
{
    printf("%d ", i);
    i++;
}
```

Find Output of the program

```
int main()
{
    int i=0;

    while (i <= 6)
    {
        if (i % 2)
            i = i - 3;
        else
            i = i + 5;
        printf("%d ", i);
    }
}
```


$$x \% 3 == 0 \&\& x \% 2 == 0$$

$$x \% 3$$