

used:-

• For repetition :- [Reiterate]

- while loop
- do while loop
- for loop

i) while loop // print HI 5 times

```
i = 1
while (i <= 5) {
    cout << "HI " << i << endl;
}
cout << "BYE " << i << endl;
```

} HI 1
HI 2
HI 3
HI 4
HI 5
→ BYE 6

ii) do while loop

syntax:-
do {

// statements will run atleast once
} while (condition);

iii) for loop (3 parts) ↓
(initialize, condition, updation)

example:- print table of a number

$(i, c) \rightarrow$ executed first
 $(u) \rightarrow$ at last

• when to use which loop:-

• when you know range \Rightarrow for
ex:- (1-100)

• Repetition based on condition \Rightarrow while
ex:- (Read file contents till EOF)

• To execute something atleast one
 \Rightarrow do-while