

goes to while loop ( $i \leq 2$ )

$3 \leq 2$  which is not true so program will not execute further while loops and get exit from while loop.

### DO-while loop

In this do-while loop, body of do while loop execute atleast once then expression is checked for true or false condition.

#### Syntax of do-while loop

```
do { block of one or more C statements; } while (test expression)
```

Eg:-

```
void main()
{
    int a = 0;
    do
    {
        printf("the value of a is %d\n", a);
        a = a + 1;
    } while (a <= 2);
    getch();
}
```

Output

the value of a is 0  
the value of a is 1  
the value of a is 2

#### Explanation:-

In this compiler enters in do block and prints the value of a is 0 then perform  $a = a + 1$ ;  $\Rightarrow a = 0 + 1 \Rightarrow a = 1$  and then goes to while statement  $(a \leq 2) \Rightarrow 1 \leq 2$  is true and again goes to do loop and executes the value of a is 1 and

$a = a + 1$ ;  $= 1 + 1 \Rightarrow 2$  and checks while statement  $a \leq 2$  which is true and again goes to do loop and executes the value of a is 2 and  $a = a + 1$ ;  $a = 2 + 1 \Rightarrow 3$  and checks  $3 \leq 2$  which is false and compiler gets exit from do loop.

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