**Entry control loop**

1. while loop

2. forloop

**Component of while loop**

a. initialisation [optional]

b. condition [**must**]

c. increment / Decrement [optional]

//print 1 to 5

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i;

1 2 3 4 5 6

i=1;//initialisation

while(i<=5) //condition

{

***out***.print(i);

i++; // increment

}

***out***.print(i);

}

}

//what will be the out put for following code is it printing 5 to 1?

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i;

5 4 3 2 1 0 -1 -2 -3……..

i=5;

while(i <=5)

{

***out***.print(i);

i--;

}

***out***.print(i);

}

}

//print 5 to 1

import static java.lang.System.out;

**public** **class** Myclass {

54321

0

**public** static void main(String[] args) {

int i;

i=5;

while(i>=1) //i!=0 i>=1 i>0

{

***out***.print(i);

i--;

}

out.print(i);

}

}

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

1 1 1 1 1 1 ……….

int i;

i=1;

while(i<=5)

***out***.print(i);

i++;

}

}

//Above code will O/p 1 1 1 1 infinite

while(i<=5) **{** **;}**

{

printf("\n%d",i);

i++;

}

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i=0;

while(i<=5) **;**

{

***out***.print(i);

i++;

}

}

}

Above code will O/P blinking cursor infinite time

import static java.lang.System.out; //++i 12345 ----6

**public** **class** Myclass {

**public** static void main(String[] args) {

int i=0;

while(i++<=5)

{

***out***.print(i);//1 2 3 4 5 6

}

***out***.print(i); //7

}

}

Above code will outputs //1 2 3 4 5 6 7

import static java.lang.System.out;

**public** **class** Myclass {

while(i++<=5) {**;}**

{

***out***.print(i);//

}

**public** static void main(String[] args) {

int i=0;

while(i++<=5)**;**

{

***out***.print(i);//7

}

}

}

Above code will O/P 7

//will bellow code compile?

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i=0;

while()

{

***out***.print(i);

}

}

}

Ans: No. Missing condition in while

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i=0;

while(i++)**;**

{

***out***.print(i);

}

}

}

error: incompatible types: int cannot be converted to boolean

import static java.lang.System.out;

**public** **class** Myclass {

**public** static void main(String[] args) {

int i=0;

while(++i)

{

***out***.print(i);

}

***out***.print(i);

}

}

error: incompatible types: int cannot be converted to boolean