**Entry control loop**

1. while loop

2. forloop

**Component of loop**

a. initialisation [optional]

b. condition [optional- default is true]

c. increment / Decrement [optional]

//print 1 to 5

**import** **static** java.lang.System.***out***;

**import** java.util.\*;

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

1 2 3 4 5

6

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

**int** i;

**for**(i=1; i<=5;++i)

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

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

}

}

//this will be infinite loop

**import** **static** java.lang.System.***out***;

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

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

**int** i;

**for**(i=1; ;++i)

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

}

}

//can I have ; after for loop? Yes

**import** **static** java.lang.System.***out***;

**for**(i=1;i<=5;i++){ ;}

{

***out***.print(i);//6

}

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

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

**int** i;

**for**(i=1;i<=5;i++) ;

{

***out***.print(i);//6

}

}

}

**import** **static** java.lang.System.***out***;

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

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

i++;

}

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**public** **class** Main{

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

**int** i;

i=1;

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

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

i++;

}

}

}

//what will be the out put

**import** **static** java.lang.System.***out***;

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

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

**int** i;

i=1;

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

{

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

}

}

}

//what will be the out put

**import** **static** java.lang.System.***out***;

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

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

**int** i;

i=1;

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

{

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

}

}

}