

Loops & Keyword, Identifiers

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```
package Loops;
public class forLoop10_Assignment1
{
    public static void main(String[] args)
    {
        int num=5;

        //          3<=10    3
        for(int i=1; i<=10; i++)
        {
            System.out.println(i*num);    //5 10 15
        }
    }
}
```

```
package Loops;
public class forLoop11_Assignment2
{
    public static void main(String[] args)
    {
        int i=1;
        while(i<=5)
        {
            System.out.println(i*i*i);
            i++;
        }

        //          for(int i=1; i<=5; i++)
        //          {
        //              System.out.println(i*i);
        //          }

        //          for(int i=1; i<=5; i++)
        //          {
        //              System.out.println("square of num "+i+": "+(i*i));
        //              1    4    9
        //          }
    }
}
```

Java Keywords:

Keywords are predefined, reserved words used in Java programming that have special meanings to the compiler.

```
abstract  assert    boolean  break      byte
case catch    char  class    const
continue  default   do      double    else
enum extends  final    finally  float
for  goto if    implements  import
instanceof  int  interface long native
                new  package    private  protected public
return      short    static    strictfp  super
switch     synchronized  this  throw      throwss
transient try  void  volatile  while
```

Java identifiers:

Identifiers are the name given to variables, classes, methods, package etc

Rules for Naming an Identifier

1. Identifiers cannot be a keyword.
2. Identifiers are case-sensitive.
3. It can have a sequence of letters and digits.
However, it must begin with a letter, \$ or _.
The first letter of an identifier cannot be a digit.
4. It's a convention to start an identifier with a letter rather and \$ or _.
5. Whitespaces are not allowed. Similarly, you cannot use symbols such as @, #, and so on.