Java Language Fundamentals.

Identifiers

A Name in Java is Called Identifiers.

Example ->

Public class Hello{

}

It may be class name, method name and Variable name.

Rules to define Java Identifiers

1. ## *The only allowed characters in java Identifiers are*
   ➔ *A to Z.*
   ➔ *a to z.*
   ➔ *0 to 9.*
   ➔ *__*

➔ $.

2. ***If we are are using any other character we will get compile time error.***
   Example-
   total_Number -> Valid
   Total# -> invalid.

3. ***Identifiers are not allowed to starts with digit.***
   Example-
   ABC123 -> Valid
   123ABC -> InValid.

4. ***Identifiers are case sensitive ->***
   Example
   Int age=20;
   System.out.println(AGE); (Invalid);

5. *We can't use white space in between identifiers->*

   Example-> int user Age= 30;(invalid)

6. *Java Identifiers we use camel case.*
   Example-
   int userAge=20;
   double userSalary=23544.0;
   String userName="Test";

7. *Standard Length for indentfiers is 15.*

8. *We can't use reserved words as Identifiers.*
   Example-
   Int if =20; invalid.

Reserved Words

• **The Java reserved words:**

abstract	default	goto	operator	synchronized
boolean	do	if	outer	this
break	double	implements	package	throw
byte	else	import	private	throws
byvalue	extends	inner	protected	transient
case	false	instanceof	public	true
cast	final	int	rest	try
catch	finally	interface	return	var
char	float	long	short	void
class	for	native	static	volatile
const	future	new	super	while
continue	generic	null	switch	

• **Reserved words cannot be used as identifiers**

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9. *<u>Valid and invalid java Indentifers</u>*
   - *_a_ -> valid*
   - *codingWithMoti -> Valid*
   - *123abc -> invalid*
   - *Total# invalid*
   - *int   (invalid)*

```java
public class Hello{

public static void main(String[] args){

int ageuserererfrtfghfgf=10;

int if=40; //invalid

int 12age=10; //invalid

int age# =30; //invalid

int userAge=30(correct way to follow camelcase)

int abcdefghijklmnjpefdfd=20;//for std coding do not write more than 15 digit.

System.out.println("hi i am in main method");

System.out.println(ageuserererfrtfghfgf);

}
}
```