Java Basic Syntax

Variables				
Name	Wrapper Class	Default Value	Print format	
byte	Byte	0	-	
short	Short	0	%d	
int	Integer	0	%d / %i	
long	Long	0	%d	
float	Float	0	%f	
double	Double	0	%f	
char	Character	'\u0000' (means 0 in ASCII)	%с	
boolean	Boolean	FALSE	-	
Set of characters	String	1111	%s	

Repetition			
While Loop	For Loop		
while(condition) {	for(initialization; condition; result) {		
//do something	//do something		
}	}		
For each loop			
for(type variable : arrayName) {			
//do something			
}			

Selection		
If Else	Ternary	
if (condition) {	variable = (condition) ? "True" : "False";	
//do something	Switch Case	
} else if(condition) {	switch(variable) {	
//do something	case condition:	
} else {	//do something	
//do something	break;	
}	default:	
	//do something	
	}	

//do something }			
	String functions		
Function	Description	Result	
.equals(s)	check if the string is equals with string inside the parameter	boolean	
.length()	get number of characters inside the string	int	
.toLowerCase()	convert the string into lowercase	string	
.toUpperCase()	convert the string into uppercase	string	
.charAt(i)	get a character from the string at specified index	char	
.startsWith(s)	check if the string is starts with string inside the parameter	boolean	
.endsWith(s)	check if the string is ends with string inside the parameter	boolean	
.indexOf(s)	get the starting index of the string inside the parameter	int	
.equalsWithIgnore Case(s)	get the starting index of the string inside the parameter	int	

	Operator			
Arithmetic Operator				
Operator	Description	Example		
+ (addition)	Add values on either side of	A = 10, B = 20		
	the operator	A+B will give 30		
(aubtroation)	Subtracts right-hand operand	A = 20, B = 10		
- (subtraction)	from left-hand operand	A-B will give 10		
* /multiplication	Multiplies values on either	A = 20, B = 10		
* (multiplication)	side of the operator.	A*B will give 200		
/ (division)	Divides left-hand operand by	A = 20, B = 10		
/ (uivisioii)	right-hand operand	A/B will give 2		
% (modulus)	Divides left-hand operand by	A = 22, B = 10		
% (IIIOddius)	right-hand operand and	A%B will give 2		
++ (increment)	Increases the value of operand	A = 1		
++ (increment)	by 1	A++ will give 2		
(docromont)	Decreases the value of	A = 1		
(decrement)	operand by 1	A will give 0		
	Relational Operator			
Operator	Description	Example		
== (equal to)	Checks if the values of two	A = 10, B = 20		
== (equal to)	operands are equal or not	A == B -> false		
!= (not equal to)	Checks if the values of two	A = 20, B = 10		
:= (not equal to)	operands are equal or not	A != B -> true		
> (greater than)	Checks if the value of left	A = 20, B = 10		
> (greater than)	operand is greater than the	A > 10 -> true		
< (less than)	Checks if the value of left	A = 20, B = 10		
< (less triail)	operand is less than the value	A < B -> false		
>= (greater than or	Checks if the value of left	A = 10, B = 10		
equal to)	operand is greater than /	A >= B -> true		
<= (less than or	Checks if the value of left	A = 10, B = 10		
equal to)	operand is less than / equal to	A <= 10, B = 10 A <= B -> true		
equal (0)	the value of right operand	A \- D -> 11 UE		

Array / ArrayList / Vector		
Array		
String[] names = {"Andy", "Chris", "John"};		
String name = names[0];		
ArrayList / Vector		
ArrayList <string> names = new ArrayList<string>();</string></string>		
names.add("John");		
names.add("Chris");		
Vector <string> names2 = new Vector<string>();</string></string>		
names2 .add("John");		
names2 .add("Chris");		
Difference between ArrayList and Vector		
- ArrayList and Vector both implements List interface and maintains		
insertion order		
- But there are many differences between ArrayList and Vector classes		

ArrayList	Vector	
1) ArrayList is not synchronized	Vector is synchronized	
2) ArrayList increments 50% of current	Vector increments 100% means	
array size if number of element	doubles the array size if total	
exceeds from its capacity	number of element exceeds	
	Vector can use Iterator and	
3) ArrayList can only use Iterator	Enumeration to traverse over	
	the elements	
4) ArrayList is a parts of the Collection framework and was introduced in JDK	Vector is present in the earlier versions of Java as a legacy class	

that are given below.