## Chapter -7 Java Basics

<u>•</u>	Java Basics				
<ol> <li>Java is anlangua</li> <li>a) <u>Object Oriented Programmi</u></li> <li>c) Basic programming</li> </ol>	0				
<ol> <li>Java was developed by which co a) <u>Sun Microsystems</u> b) Micro</li> </ol>					
functions?	a types, system I/O capabilities and other utility <b>s libraries</b> c) JVM d) UML				
<ul> <li><b>4.</b> Basic classes are part of the</li> <li>a) <u>JDK</u> b) JVM</li> </ul>	·····				
<ul> <li>5. Who have classes to support net toolkit functions?</li> <li>a) <u>JDK</u></li> <li>b) Java Source</li> </ul>	tworking, common Internet protocols and interface ce c) JVM d) UML				
<ul> <li>6. Java is platform - independent a</li> <li>a) Source</li> <li>b) binary</li> </ul>					
known as	oved easily from one computer system to another is <u>independent</u> c) Compiler d) Source code				
5 7 1 1	endent is possible due to which feature? <b>Bytecode Interpreter</b> c) Compiler d) Source code				
<ul> <li>9. Programs written in Java are co</li> <li>a) <u>machine</u></li> <li>b) Binary</li> </ul>	ompiled intolanguage. c) Source d) Bytecode				
<ul> <li><b>10.</b> In Java virtual computer is known of the second se</li></ul>	c) UML d) OML				
<ul><li><b>11.</b> What do we called the machine</li><li>a) JavaScript</li><li>b) Java bytec</li></ul>	e language which is used for JVM? <b>code</b> c) Java Binary code d) Source code				
<ul> <li>12. What is the only disadvantage of a)</li> <li>Slow in execution speed of a c) virtual language</li> </ul>	of using bytecode? b) Machine independent d) None				
<ul><li><b>13.</b> What is the disadvantage of nata</li><li>a) Slow in execution speed</li><li>c) Virtual language</li></ul>	tive code? b) <u>Machine independent</u> d) None				
<ul><li><b>14.</b> From the following what is not</li><li>a) type casting</li><li>b) typedef</li></ul>	available in Java? c) typecode d) Type				

<ul><li><b>15.</b> Java source file</li><li>a) <u>same</u></li></ul>	s are given the b) different		class they define. d) linear
<b>16.</b> What is the external a) .class	ension of Java sou: b) <b>.java</b>	rce file? c) .javac	d) .jvm
<ul> <li><b>17.</b> What happen w</li> <li>a) <u>Creates a clas</u></li> <li>c) create java fil</li> </ul>	ss file	compiled without e b) Show the out d) create binary	put of program
<ul><li><b>18.</b> What is the external a) <u>.class</u></li></ul>	ension of class file? b) .java		d) .jvm
<b>19.</b> When we run th a) class ( )	ne program, the Ja b) <u><b>main ( )</b></u>	-	which method? d) static( )
<b>20.</b> Therouting even in other cla		broutines that are	defined in the same class or
		c) string()	d) static()
	0	mpiling and execu <b>piler - Java Byte</b>	ting a Java application. <b>code File – JVM</b>
	eans that this rout b) <b>public</b>		rom outside the program? d) packages
<b>23.</b> The rules that of a) <u><b>Syntax</b></u>		allowed are called c) Literals	theof the language. d) Variables
	le writing actual p		ribes something actual we d) variables
<b>25.</b> Function heade a) <u>{ }</u>	r and the sequence b) < >	e of statements end c) []	closed between which braces? d) ( )
<b>26.</b> Which can't exist a) function	sts by itself? b) <b>method</b>	c) Main()	d) variable
<b>27.</b> Method has to h a) <u><b>class</b></u>	be a part of which s b) Literals	section of Java? c) Method	d) main( )
28. Structure of Ja	wa program.		
public class <cla< td=""><td>ss - name&gt;</td><td></td><td></td></cla<>	ss - name>		
-	ble - declarations - 1 main (String [ ] a		7

<sta< th=""><th>itements&gt;</th><th></th><th></th></sta<>	itements>			
} <opt }</opt 	tional - variable - d	eclarations - and -	methods>	
<b>29.</b> One compulsor a) static	y class has which p b) <b>main</b>	oublic method? c) Syntax	d) Literals	
	nes the required me ns that can be perfo b) Variable		values, range of values and d) Keyword	
<b>31.</b> How many prim a) 3	nitive data types are b) 4	e there in Java? c) <u><b>8</b></u>	d) 6	
<b>32.</b> Name the primi a) byte, short int	51	ouble c) char, bo	oolean. d) <u>All of these</u>	
<b>33.</b> Name the data a a) byte, short	type which hold the b) int	e integers. c) long	d) <u>All of these</u>	
<b>34.</b> Name the data a) float	type which hold the b) double	e real numbers. c) Int	d) <b>Both a and b</b>	
<b>35.</b> Which data type a) <u><b>char</b></u>	e hold a single char b) Boolean	cacter from Unicod c) Long	le character set? d) Double	
<b>36.</b> Which data type a) char	e holds one of the t b) <b>Boolean</b>	wo logical values t c) Long	rue or false? d) Double	
<b>37.</b> Which data type a) <u><b>Primitive</b></u>	es are machine - in b) Non Primitive	-	d) Public	
<b>38.</b> numb a) <u><b>Real</b></u>		npliant with <u>IEEE</u> c) Character	<b>754.</b> d) String	
<b>39.</b> What is the meaning of IEEE754? Ans. <u>An international standard for defining floating - point numbers and</u> <u>arithmetic.</u>				

**40.** What can store data in memory?<br/>a) Data typeb) **Variable**c) Keywordsd) Operators

## **41.** Match the followings.

(A)			(B)
1	byte	а	8 bytes
2	short	b	4 bytes
3	int	С	1 byte
4	double	d	2 bytes

b) (1-c, 2-d, 3-b, 4-a) a) (1-c, 2-d, 3-a, 4-b) d) (1-c, 2-d, 3-b, 4-a) c) (1-d, 2-c, 3-a, 4-b) **42.** Which of the following refers to the same memory location? a) Variable b) Data type c) Literals d) Values **43.** Which can take different data values at different times during the executing of the program? a) Variable c) Literals d) Values b) Data type 44. Which of the following is the correct syntax to declare variable in Java. a) <type - name> {variable - names}; b) {type - name} <variable - names>; c) [type - name ] {variable - name}; c) (type-name) <variable – name>; **45.** What is denoted by <> in "<type - name> {variable - names};" syntax? b) List of items a) item to be specified by user c) Value d) Message **46.** What is denoted by {} in "<type - name> {variable - names};" syntax? a) item to be specified by user b) List of items c) Value d) Message 47. What is denoted by {variable-names} in "<type - name> {variable - names};" svntax? a) **list of variables** b) data type of variables c) value d) Message **48.** What is denoted by <type-name> in "<type - name> {variable - names};" syntax? a) list of variables b) **data type of variables** c) value d) Message **49.** By which a variable name must be begin with? a) Alphabet b) underscore c) dollar sign (\$) d) All of these **50.** What do we call the words who have special use in Java and cannot be used by the programmer for the other purposes? a) Expression b) Reserved Word c) Variable d) Boolean **51.** Which of the following is the valid variable name in Java. 4) a1mp3 1) birth date 2) CallCost 3) 4me 7) date of\_joining 8) Name# 5) \$price 6) %date\$ 6) 34Call a) 1,2,3,5,7,8 b) **1,2,4,5,8** c) 1,2,4,6,7 d) 1,3,4,5,6 **52.** What is used for a constant value? c) Class d) Objects a) **Literal** b) Variable 53. Which type of literal are used to represent integer or real numbers? a) Boolean b) Numeric c) String d) character **54.** We can force a smaller number to be a long by appending which letter? a) **L or 1** b) B or b c) A or a d) O or o

<b>55.</b> What is the rang a) 0 to F (0-9 and 10)		s? b) <b>0 to 7 (base 8</b> )	c) 1 to 8	d) 1 to 8 (base
<b>56.</b> What is the ran a) <u><b>0 to F (0-9 an</b></u>	ge of Hexadecimal i . <b>d A-F) base 16</b>		c) 1 to 16	d) 1 to 15
<b>57.</b> lite character literal a) <u>Unicode</u>	rals consists of \u '\u00E9' represent b) character	s the Unicode char		
<b>58.</b> What is the defa a) <u><b>double</b></u>	ult type of floating b) float	point literals? c) int	d) Long	
<b>59.</b> To make a litera number. a) <u>float</u>	l of type b) Double		l an <u>F or f</u> as d) int	s a suffix to the
<b>60.</b> Which type of lination a) double	terals are not assoc b) <b>Boolean</b>	ciated with any nur c) int	neric value? d) double	
<b>61.</b> Boolean type lite a) True	erals has how man b) False	y literals? c) Yes	d) <b>both a a</b>	nd b
<b>62.</b> Which type of linquotes? a) <u>character</u>	terals are expressed b) Boolean		cter surroun d) int	ded by single
<b>63.</b> Ais a so a) character	-	ers. c) <b>String</b>	d) int	
<b>64.</b> Which type of line a) character	terals is a sequence b) <b>string</b>		losed in doul d) int	ble quotes?
<b>65.</b> Within string, sp a) <b>backslash(\)</b>	pecial characters ca b) forward slash(	-	using the d) \$	

a) **<u>backslash(\)</u>** b) forward slash(/) c) \* d) \$

**66.** Match the followings.

(A	)	(B	3)
1	\n	а	Tab
2	\t	b	Backspace
3	\b	с	Carriage return
4	\r	d	New line

a) (1-d, 2-a, 3-c, 4-b)b) (1-d, 2-a, 3-b, 4-c)c) (1-a, 2-d, 3-c, 4-b)d) (1-a, 2-d, 3-b, 4-c)

**67.** Find out the correct literal type from the list.

		(A)		(B)		
	1	4L	a	Floating point	literal	
	2	-56	b	String literal		
	3	0xFF7A	С	Unicode literal	1	
	4	\u00E9	d	Scientific nota	tion	
	5	1.2F	e	Hexadecimal l	iteral	
	6	"Many, \"Congratulations!\""	f	Long Integer li	iteral	
	7	1.24E-107	g	Negative integ	er	
<b>68.</b> Whi		<b>3-e, 4-c, 5-a, 6-b, 7-d)</b> nent is ignored by the compu b) <b><u>Comment</u></b>	iter?	-f, 2-g, 3-c, 4-e, 5- c) Literals		
<ul> <li>69. Which type of comment is begin with double slashes (//) and extends till the end of a line?</li> <li>a) <u>Single-line</u> b) Multi-line c) document d) None of above</li> <li>70. What do we use to apply multi-line comment?</li> </ul>						
<b>71.</b> Whi Java	<ul> <li>a) /* /* b) /**/ c) */*/ d) //*/</li> <li>71. Which type of comment used to creating API documentation form the code in Java?</li> <li>a) Documentation Comment b) Multi-line c) Single-Line d) None</li> </ul>					
	at do we */	use to apply documentation o b) <u>/** */</u>	comme -	ent in Java? c) //**//	d) //	
	<b>73.</b> The basic building blocks of expressions area) literalsb) variablesc) functiond) All of these					
<b>74.</b> are special symbols used to build an expression.a) <b>Operators</b> b) Variablesc) Literalsd) Function						
<b>75.</b> Which type of operators can be applied on any type of numeric data?a) Arithmeticb) Assignmentc) Logicald) Conditional						
	<b>76.</b> In which data type the result of "9*2" is stored?a) Floatb) Integerc) Longd) Double					
<b>77.</b> In which data type the result of "9f/2f" is stored?a) <b>Float</b> b) Integerc) Longd) Double						

<b>78.</b> What do we call the conversion where lower range data type is implicitly converted to higher data type?				
a) <u><b>Type cast</b></u>	01	c) Literals	d) Variable	
<b>79.</b> Which operator can al a) <u>+</u>	so be used to concatenat b) *	ce a string? c) -	d) #	
<b>80.</b> With modulus operato a) <u><b>negative</b></u>	or %, if first operand is ne b) positive	egative, the result i c) True	s d) False	
<b>81.</b> Which operators are c a) <u>++ and</u>	alled increment and decr b) +/ and -/	-	d) +,-,-	
<b>82.</b> What is the output of a) x=3, y=6		c) x=7,y=4	d) x=4,y=4	
<ul> <li>83. What is the output of</li> <li>a) <u>x=3, y=6</u></li> </ul>	"x=4; y=3+x;" code? b) x=4, y=7	c) x=4,y=-1	d) x=4,y=1	
<b>84.</b> After applying compar	ison operator, the result	of expression is co	me in which	
data type? a) Integer	b) <b>Boolean</b>	c) Integer	d) Float	

**85.** In which part of programming relational operators are used?a) If statements & loopsb) Body partc) head partd) End part

**86.** List of logical operations.

No.	Logical Operations	Operators
1	AND	හිනී
2	OR	
3	XOR	^
4	NOT	!

87. In statement "A && B" if both A and B both are true then what is the result?
a) <u>True</u>
b) False
c) True
d) False

88. In statement "(x==0) | | (y==0)" if one is true then what is the result?
a) <u>True</u>
b) False
c) True
d) False

**89.** Using which operator, we will find opposite result?a) XORb) NOTc) ORd) AND

**90.** Without the....., there would have been a "**division by zero**" error at runtime.

a) **<u>short – circuiting</u>** b) Type cast c) Expression d) All of these

<b>91.</b> Which operator a) =	is used as assignn b) = =	nent operator? c) >=	d) <=	
<b>92.</b> Which operator a) <u><b>? and :</b></u>	is used as condition b) % and ?	onal operator? c) : and ?	d) ? and ?	
<b>93.</b> What is the out a) 25	put of "(N%2 ==0) ? b) <u><b>4</b></u>	? (N/2) : (3*N+1)" o c) 26	code where N=8? d) 2	
<b>94.</b> What is the sho a) <u><b>a+=b</b></u>	rthand assignment b) a=+b	t of "a=a+b" code? c) a++=b	d) a==b	
<b>95.</b> What is the full a) p=q && p	-	k=p" shorthand as c) p=p & q	•	
	of Java we may us e automatically? b) Promotion	e when we want to c) Literals	o force a conversion that d) Data type	
<b>97.</b> What do we call a) Loops		t enable to contro <b>ctures</b> c) Inherita	the flow of execution? nce d) Aggrigation	
<b>98.</b> Which statemer a) <u>block</u>	nt is a group of stat b) Loops	tements enclosed i c) If	between a pair of braces {}? d) Switch	
	nt is used when the the value of a var b) <b>switch</b>		native actions to be taken 1? d) For	
<b>100.</b> Incase a) <u>switch</u>	e , if a match is fou b) If	nd, the respective c) For	case statement are executed. d) While	
<b>101.</b> In switch case a) <u>default</u>	e , if no match is fo b) loop	ound, when which c) control	statement is executed? d) While	
<b>102.</b> Java support a) for		constructs: c) do while	d) <u>All of these</u>	
<b>103.</b> In which loops, test expression is evaluated first and the statements in the loop are executed if condition is true.				
,		, , , , , , , , , , , , , , , , ,	est loop constructs?	
105la a) <u>do while</u>	oop is exit - control b) While	lled or post - test l c) F	-	

<b>106.</b> The structure.	.statement is used	to transfer the con	trol outside switch or loop	
	b) Continue	c) case	d) For	
	statement is us b) Continue		d) For	
<b>108.</b> Which class d a) <u>Math</u>	efines a whole set o b) Mathematical	-	erations? d) mathc	
<b>109.</b> If we want to e	control which loop t	to break and which	loop to reiterate, we can use	
a) <b>Labeled loop</b>	<b>s</b> b) Labeled break	c) break	d) Continue	
	ed loop, add the lab b) semi colon(;)		before the loop. d) dash ( - )	
		l to skip the followi	ing statements in a loop and	
	the next iteration. b) <u>Continue</u>	c) case	d) For	
	following is an exam b) decision	-		
<b>113.</b> In Java, how a) 2	many levels of visib b) <u><b>4</b></u>		available for access control? d) 6	
<b>114.</b> Which of the a) <u>Scite</u>	following editor is u b) Calc			
<ul> <li>115. Which of the following is right when Java file is created?</li> <li>a) Name must start with Number '2' Only</li> <li>b) Java source file &amp; class name must be different.</li> <li><u>c) Java source file &amp; class name must be same.</u></li> <li>d) Name must have symbol '\$' at the end.</li> </ul>				
	following is commended b) /##/			
<ul> <li><b>117.</b> Which of the following command is given in JDK using Java interpreter?</li> <li>a) java CallCost b) run CallCost c) javarc CallCost d) javac CallCost</li> </ul>				
<b>118.</b> Which of the following is missing from compilation process to execute Java application?				
Java source file (.j	java) 🔸 Java Compile	er (javac)	→ JVM – Java Interpreter (java)	
a) Java Bookcod c) <b>JavaBytecod</b>	. ,	-	ecode file(*.csc) mpilercode (*.Javacr)	

## **Textbook Exercise**

1.	How many basic a) 2	(primitive) data typ b) 4	bes are supported i c) 16	n Java? d) <b><u>8</u></b>
2.	What is the defau a) Int	ult data type of floa b) long	ting point literal? c) Float	d) <b>double</b>
3.	Which character a) <u><b>Unicode</b></u>	set is used for cha b) ASCII	r data type in Java c) EBCIDIC	? d) All of These
4.	Which of the follo a) <u><b>Digit</b></u>	owing is not allowed b) Underscore	d as first character c) Letter	<sup>.</sup> in valid variable name? d) Dollar
5.	Which of the follo a) for (; ;){int i=7}; c) While(true){int	wing is compiled e b) Wi i=7} d) <u>A1</u>	error free? hile(1) {int i=7}; <b>1 of these</b>	
6.	Which is not a ba a) char	asic data type in Ja b) long	ava? c) Letter	d) <b>string</b>
7.	What is the defau a) null	ult value of Boolear b) true	n type data? c) <u><b>false</b></u>	d) 0
8.	What will be the a) <u><b>3.5</b></u>	result of arithmetic b) 3	c expression 7/2? c) 1	d) 0
9.	What will be the : a) -3	result of arithmetic b) <u>-1</u>	c expression -7%2? c) 1	d) -3.5
10	). What will be the a) -3	result of arithmeti b) <u>-1.5</u>	ic expression -7.5% c) 1.5	62? d) Error