**Char And Boolean Data Types:**

**1. What is the numerical range of a char data type in Java?**

a) -128 to 127

b) 0 to 256

c) 0 to 32767

d) 0 to 65535

**Answer) d)**

The char data type is a single 16-bit Unicode character. It has a minimum value of '\u0000' (or 0) and a maximum value of '\uffff' (or 65,535 inclusive).

**2. Which of these coding types is used for data type characters in Java?**

a) ASCII

b) ISO-LATIN-1

c) UNICODE

d) None of the mentioned

**Answer: c**

**Explanation:** Unicode defines fully international character set that can represent all the characters found in all human languages. Its range is from 0 to 65536.

**3. Which of these values can a boolean variable contain?**

a) True & False

b) 0 & 1

c) Any integer value

d) true

View Answer

**Answer: a**

**Explanation:** Boolean variable can contain only one of two possible values, true and false.

**4. Which of these occupy first 0 to 127 in Unicode character set used for characters in Java?**

a) ASCII

b) ISO-LATIN-1

c) None of the mentioned

d) ASCII and ISO-LATIN1

**Answer: d**

Explanation: First 0 to 127 character set in Unicode are same as those of ISO-LATIN-1 and ASCII.

**5. Which one is a valid declaration of a boolean?**

a) boolean b1 = 1;

b) boolean b2 = ‘false’;

c) boolean b3 = false;

d) boolean b4 = ‘true’

**Answer: c**

**Explanation:** Boolean can only be assigned true or false literals.

**6. What is the output of this program?**

class array\_output {

public static void main(String args[])

{

char array\_variable [] = new char[10];

for (int i = 0; i < 10; ++i) {

array\_variable[i] = 'i';

System.out.print(array\_variable[i] + "" );

i++;

}

}

}

a) i i i i i

b) 0 1 2 3 4

c) i j k l m

d) None of the mentioned

**Answer) a)**

**7. What is the output of this program?**

class mainclass {

public static void main(String args[])

{

char a = 'A';

a++;

System.out.print((int)a);

}

}

a) 66

b) 67

c) 65

d) 64

**Answer) a)**

**8. What is the output of this program?**

class mainclass {

public static void main(String args[])

{

boolean var1 = true;

boolean var2 = false;

if (var1)

System.out.println(var1);

else

System.out.println(var2);

}

}

a) 0

b) 1

c) true

d) false

**Answer: c**

**9. What is the output of this program?**

class booloperators {

public static void main(String args[])

{

boolean var1 = true;

boolean var2 = false;

System.out.println((var2 & var2));

}

}

a) 0

b) 1

c) true

d) false

**Answer: d**

Explanation: boolean ‘&’ operator always returns true or false. var1 is defined true and var2 is defined false hence their ‘&’ operator result is false.

**10. What is the output of this program?**

class asciicodes {

public static void main(String args[])

{

char var1 = 'A';

char var2 = 'a';

System.out.println((int)var1 + " " + (int)var2);

}

}

a) 162

b) 65 97

c) 67 95

d) 66 98

**Answer: b**

Explanation: ASCII code for ‘A’ is 65 and for ‘a’ is 97.