**Chapter01**

**1)If the following statements were used in a java program it would cause something to be written to the screen, What would it cause to be written to the screen? System.out.println(“Java is not a drink”);**

Ans: It cause that “Java is not a drink” to be written to the screen.

2**) Give a statement that can be used in a java program to write the following to the screen?** I like java

You like tea

Ans: system.out.println(“I like java”);

System.out.println(“You like tea”);

3) **Write a complete java program that uses system.out.println to output the following to the screen run: Hello World.**

Ans: public class First program

{

Public static void main(string [] args)

{

System.out.println(“Hello World”);

}

}

4) **What is a compiler?**

Ans: A compiler is a program that translates a high level language program into a low level language program.

5) **What is a source program?**

Ans: The language that can be used before the compilation is known as the source program.

6) **What is object program?**

Ans: Low level language that compiles and produces the object program.

7) **What do you call a program that runs java byte code instructions?**

Ans: Interpreter.

8) **Suppose you define a class named Nice Class in a file. What name should the file have?**

Ans: Nice Class

9) **Suppose you compile the class Nice Class. What will be the name of the file with the resulting byte code?**

Ans: Nice Class. Class

10)**Which of the following may be used as variable names in java?**

**Rate1, 1st player, myprogram.java, long, Timelimit, number of window.**

Ans: Variables are defined before they are used.Rate1, Timelimit, number of windows are used as variables in java.

11) **Can a java program have two different variables named number & Number?**

Ans:Yes it is possible.

12) **Give the declaration of two variables called & inches. Both variables are of type int & both are to initialize to 0 in the declaration?**

Ans: int feet = 0;

Int inches = 0;

13) **Give the declaration of two variables called count & distance. Count is of type int & initialize to zero. Distance of type double & initialize to 1.5.**

Ans: int count=0;

Double distance=1.5;

14) **Write a java assignment statement that will set the value of t variable distance to the value of the variable time multiplied by 80.All variables of type int?**

Ans: int distance= time \* 80;

15) **Write a java statement that will set the value of the variable interest to the value of the variable balance multiplied by the value of the variable rate. The variables of type double**.

Ans: double interest = balance \* rate;

16) **What is the output produced by the following lines of code? Char a, b;**

**a= ‘b’ ;**

**system.out.println("a”);**

**b= ‘c ;**

**system.out.println(“b”);**

**a= ‘b ;**

**system.out.println(“a”);**

Ans: b

c

b

17) **Convert the following into java expression?**

**a) 3x b) 3x+y c) x+y / 7 d) 3x+y / z+2**

Ans: a) **3 \* x**

b) 3 \* x + y

c) (x + y) / 7

d) (3 \* x + y) / (z + 2 )

18) **What is the output of the following program lines?**

**Double number = (1/3) \* 3;**

**Sytem.out.println(“1/3 \* 3 is equal to”+ number);**

Ans:0

19) **What is the output of the following code?**

**Int quotient, remainder;**

**Quotient = 7/3;**

**Remainder = 7%3;**

**System.out.println(“quotient =” + quotient);**

**System.out.println(“remainder=”+ reainder);**

Ans: quotient = 2

Remainder = 1

20) **What is the output of the following.**

**Int result = 11;**

**Result / =2;**

**Syem.out.println(“result is” + result);**

Ans: result = 5

21) **Given the following fragment that purpose to convert from degrees Celsius to degrees Fahrenheit answer the following question.**

**Double Celsius** = **20;**

**Double Fahrenheit;**

**Fahrenheit = (9/5) \*Celsius + 32.0;**

**a) What value is assign to Fahrenheit?**

Ans: 52.0

**b) Explain what actually happen & what programmer wants?**

Ans: On both the side integer value is there they can be solved. If it is floating point value it cannot be discarded.

**c) Rewrite the code as the programmer intended?**

Ans: Fahrenheit = 1.8 \* Celsius + 32.0;

22) **What is the output of the following code?**

**Int n = (int) 3.9;**

**System.out.println(“n==”+n);**

Ans: n == 3.9

23) **What is the output of the following code?**

**Int n =3;**

**n++;**

**system.out.println(“n==”+n);**

**n- -;**

**system.out.println(“n==”+n);**

Ans: n == 4

n == 3

24) **What is the output of the following code?**

**String verbphrase = “is money”;**

**System.out.println(“Time+ verbphrase”);**

Ans: Time is money.

25) **What is the output of the following code?**

**Ring Test = “abcdefg”;**

**System.out.println(test length());**

**System.out.println(test char At());**

Ans: 7

B

26) **String test = “abcdefg”;**

**System.out.println(test. substring(3)); find the output?**

Ans: d

27) **system.out.println(“abc\ndef”); What it produce?**

Ans: abc

Def

28) **system.out.println(“abc\\ndef”);**

Ans: abc / ndef

29) **What is the output of the following code?**

**String Test = “Hello Tony”;**

**Test = test.toUpperCase( );**

**System.out.println(test);**

Ans: HELLO TONY

HELLO TONY

30) **What is the output of the following code?**

**System.out.println(“2+2=”+(2+2));**

**System.out.println(“2+2=”+2+2);**

Ans: 2

4

31) **Suppose sam is an object of a class named person & increasAge is a method for the class person that take one argument that is an integer. How do you write a method increaseAge using sam as the calling object & using the argument 10? The method increaseAge will change the data in sam so that it simulate sam aging by 10years.**

Ans: sam.increaseAge(10);

32) **What are two types of comments in java?**

Ans: //There is a start of an comment & // This is the end of a omments. Another iss any thing paired in this /\* - - - - - - - - - - -- - - ----- - -- - - \*/ is also called comments.

33) **What the output of this?**

**System.out.println(“Hello”);**

**System.out.println(“Student”);**

Ans: Hello

Student

34) **What is the normal spelling convention for named constant?**

Ans: Convention is to spell named constant’s using all uppercase letters with underscore symbols used to separate words.

35) **Write a line of java code that will give the name ANSWER to the int value 42.In the words, make ANSWER a named constant for 42.**

Ans: public static int ANSWER = 42;