

Girls' High School and College, Prayagraj
Assignment No.-1
Session:2020-2021
Class : 9th Section : C,D,E
Subject:Computer Applications
Chapters : Introduction to Java
and Values and DataTypes

Instruction :

The Parents to ensure that their ward watches the video instructions for this assignment by clicking on the given links : <https://youtu.be/6c4ZmMSr3Ho> and <https://youtu.be/PyINBknkK64>

She should revise the lesson given in the book and then work on the assignment. The completed assignment is to be downloaded and filed /pasted in the subject file/copy and kept ready for submission .The day, date and procedure of submission shall be notified later.

Chapter:INTRODUCTION TO JAVA

Q1. OBJECTIVE QUESTIONS:

A. STATE TRUE OR FALSE:

1. Stand-alone Java applications cannot run independently on a computer.
2. A console based java application is designed to be used via a text-only interface.
3. Java Applets are Java applications that run within a web browser.

4. The machine language version of the source code generated by the compilation process is specific to the processor you are compiling on.
5. The Bytecode files are generated with the ".java" extension.
6. Java uses a combination of compilation and interpretation.
7. Just-In-Time (JIT) compiler compiles selected portions of Bytecode into executable code.
8. An Interpreter translates the source code instructions into machine code all at once.

Q2. ANSWER THE FOLLOWING QUESTIONS:

1. Write a brief note on java language.
2. Define two features of java.
3. Why is java a platform independent language?
4. How is java a secure language?
5. What is JVM?
6. Define Bytecode.
7. What are java applets?
8. Name two types of java programs.
9. Describe the slogan "write once, run anywhere" in relation to java.
10. Distinguish between:
 - a) Source code and Object code
 - b) Compiler and Interpreter
11. What will be the result produced by following java program?

```
class My_class
{
public void test()
{
System.out.println("Printed inside of ");
System.out.println("My_class");
}
}
```

12. Execute the given program on blue j to check whether entered number is a prime number or not.
(Prime number is a number that is only divided by 1 and number itself.)

PROGRAM:

```
public class Prime
{
public static void main(int n)
{
int c=0;
for(int i=2;i<n;i++)
{
if(n%i==0)
c++;
}
if(c==0)
System.out.println("It is a prime number ");
else
System.out.println("It is not a prime number");
}
}
```

Chapter : VALUES AND DATA TYPES

Q1. OBJECTIVE QUESTIONS:

A.STATE TRUE OR FALSE:

- 1.Java supports the use of the ASCII character set only.
- 2.The smallest unit in Java program is known as token.
- 3.The Unicode character set uses between 8 and 32 bits per character.
4. In an escape sequence a character is preceded by a forward slash (/).
- 5.In java,an identifier can not begin with a \$ sign.
- 6.The boolean datatypes are used for storing logical values.

7. Java offers five types of tokens.

8. The char datatype reserves 8 bits in memory.

Q2.SUBJECTIVE QUESTIONS:

A.ANSWER THE FOLLOWING QUESTIONS IN SHORT:

1. What is a character set?

2. What is an escape sequence in Java?

3. What are tokens in Java? Name any three tokens.

4. What are Keywords? Give an example.

5. What are Identifiers?

6. What are Literals in Java?

7. What are Primitive data types in java ?

8. State the number of bytes occupied by char and int data types.

9. What are the default values of the primitive data type int and float?

10 Describe the use of the final keyword.

11. Write one difference between primitive data types and composite data types.

12. What is the result of evaluating the following expression?

$(1+2*2) / 2+2;$

B.PROGRAM:

1. Execute the given program on Bluej to see the use of horizontal tab and newline escape sequences.

```
public class Escape_Sequence
```

```
{  
public static void main (String args[])  
{  
System.out.println(" First line\nSecond line");  
System.out.println ("A\tB\tC");  
System.out.println ("D\tE\tF");  
}  
}
```

END