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| Course- BTech | Type- Core |
| Course Code- **CSET109** | Course Name- **Object Oriented Programming Using Java** |
| Year- First | Semester- Even Batch- BTech 2nd Semester |

**Tutorial-3**

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| **Tutorial No.** | **Name** | **CO1** | **CO2** | **CO3** |
| **3** | **Basics** |  | **--** | **--** |

**Objective:** The main objective of this tutorial is to learn about the basics of Java language.

* 1. Analyse the given program segment and answer the following questions: for(int i = 3; i <=4; i++)

{

for(int j=2; j<i; j++)

{

System.out.print("\*");

}

System.out.println("Simply");

}

1. How many times in total will the inner loop execute? Answer: **3**
2. Write the output of the program segment.

Answer: **\*Simply**

**\*\*Simply**

* 1. Give the output of the following program. int i,j;

for (i=0; i<4; i++)

{

for (j=i; j>=0; j--)

System.out.print(j); System.out.println();

}

**Answer 3.2:**

**0**

**10**

**210**

**3210**

* 1. Convert following do-while loop into for loop. int i=1;

int d=5; do{ d=d\*2

System.out.println(d); i++;

}while(i<=5);

**Answer 3.3:**

**int d=5;**

**for(int i=1; i<=5;i++)**

**{**

**d=d\*2;**

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

**}**

* 1. Give the output and show the dry run.

public static void abc()

{

int x=1, i=2; do

{

x\*=i;

}while(++i<=5); System.out.println(x);

}

**Answer: 120**

* 1. What will be the output error in the following program?

public class Test {

public static void main(String[] args)

{

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

}

}

Answer: error: variable declaration not allowed here **int x= 10;**

* 1. What will be the output of the following program? public class Test {

public static void main(String[] args)

{

int i = 0;

for (System.out.println("HI"); i < 1; i++) System.out.println("HELLO");

}

}

Answer:

HI

HELLO

* 1. What will be the output of the following code? int a, b;

for (a = 6, b = 4; a <= 24; a = a + 6)

{

if (a % b == 0)

break;

}

System.out.println(a);

**Answer: 12**

* 1. What will be the output of the following code ?

public class LoopExample {

public static void main(String[] args) {

int i = 55;

for(; i<70; i++){

System.out.print(" "+i);

i++;

}

}

}

**Answer: 55 57 59 61 63 65 67 69**

* 1. What will be the output of the following code ?

public class A

{

public static void main(String [] para)

{

int i=0;

while(i<10)

{

++i;

System.out.print(i+ " ");

}

}

}

Answer: **1 2 3 4 5 6 7 8 9 10**

* 1. What will be the output of the following code?

public class Newexample {

public static void main(String[] args) {

int i=0;

while(true){

++i;

System.out.print(i+ " ");

if(i==10){

break;

}

}

}

}

**Answer: 1 2 3 4 5 6 7 8 9 10**