**Loops assignment**

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

public class Main {

public static void main(String[] args) {

for (int i = 0; i < 5; i++) {

System.out.println(i);

}

}

}

a) 0 1 2 3 4

b) 1 2 3 4 5

c) 0 1 2 3 4 5

d) Compilation Error

**ANSWERS:A**

2. What will be the output of the following code snippet?

public class Main {

public static void main(String[] args) {

int i = 0;

while (i < 3) {

System.out.println(i);

i++;

}

}

}

a) 0 1 2

b) 0 1 2 3

c) 1 2 3

d) Compilation Error

**ANSWER:A**

3. What will be the output of the following code?

public class Main {

public static void main(String[] args) {

int i = 1;

do {

System.out.println(i);

i++;

} while (i <= 3);

}

}

a) 1 2 3

b) 1 2 3 4

c) 0 1 2 3

d) Compilation Error **ANSWER:A**

4. What will be the output of the following code snippet?

public class Main {

public static void main(String[] args) {

for (int i = 0; i < 5; i += 2) {

System.out.println(i);

}

}

}

a) 0 2 4

b) 0 1 2 3 4

c) 0 2 4 6

d) Compilation Error

5. What will be the output of the following code?

public class Main {

public static void main(String[] args) {

for (int i = 0; i < 5; i++) {

if (i == 3) {

break;

}

System.out.println(i);

}

}

}

a) 0 1 2

b) 0 1 2 3

c) 0 1 2 3 4

d) Compilation Error **ANSWER:A**

6. What will be the output of the following code snippet?

public class Main {

public static void main(String[] args) {

int i = 0;

while (i < 5) {

if (i == 2) {

i++;

continue;

}

System.out.println(i);

i++;

}

}

}

a) 0 1 2 3 4

b) 0 1 3 4

c) 0 1 2 3

d) 1 2 3 4 **ANSWER:A**

7. What will be the output of the following code?

public class Main {

public static void main(String[] args) {

for (int i = 1; i <= 3; i++) {

for (int j = 1; j <= 3; j++) {

System.out.println(i + " " + j);

}

}

}

}

a) 1 1, 2 2, 3 3

b) 1 1, 1 2, 1 3, 2 1, 2 2, 2 3, 3 1, 3 2, 3 3

c) 1 1, 2 1, 3 1, 1 2, 2 2, 3 2, 1 3, 2 3, 3 3

d) Compilation Error

**ANSWER:B**

8. What will be the output of the following code snippet?

public class Main {

public static void main(String[] args) {

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

if (i % 2 == 0) {

System.out.println(i + " is even");

} else {

System.out.println(i + " is odd");

}

}

}

}

a) 1 is odd, 2 is even, 3 is odd, 4 is even, 5 is odd

b) 1 is even, 2 is odd, 3 is even, 4 is odd, 5 is even

c) 2 is even, 4 is even

d) Compilation Error

**ANSWER:A**

Explanation: The for loop iterates through numbers from 1 to 5 and checks whether each number is even or odd, printing the appropriate message.

9. What will be the output of the following code?

public class Main {

public static void main(String[] args) {

int i = 5;

while (i > 0) {

System.out.println(i);

i--;

}

}

}

a) 5 4 3 2 1

b) 5 4 3 2 1 0

c) 4 3 2 1

d) Compilation Error

**ANSWER:A**

10. What will be the output of the following code snippet?

public class Main {

public static void main(String[] args) {

int i = 0;

do {

System.out.println(i);

i++;

} while (i < 3);

}

}

a) 0 1 2

b) 0 1 2 3

c) 1 2 3

d) Compilation Error

**ANSWER:A**