

Assignment 3

1. in for loop we are decrementing i and hence it is not satisfying the terminating condition
to solve this problem we should increment i which will print the value of till 10
2. while loop needs boolean expression but here we are using assigning count a value not comparing it
to correct this code we need to use == operator
3. the loop will run for infinite time
4. in order to get the expected output we should run the loop from 1 to i<10
5.

```
public class WrongInitializationForLoop {  
    public static void main(String[] args) {  
        for (int i = 10; i >= 0; i—) {  
            System.out.println(i);  
        }  
    }  
}
```


the loop will print values greater than 10 and will print it for infinite time
6. to enclose the body of the loop we should declare both the sop statements inside the block which will declare the scope of for loop
7. the code produce a compilation error because count is not initialized
java dynamically allocate memory not like c++ it allocate garbage value to the variable instead it allocate memory when we use the variable
8. we are decrementing the value of num due to which the terminating condition is never executed and it never
9. the loop does not run infinitely
for the expected output we should increment the value of by 1

10. to execute the loop normally the condition should be greater than or equal to 10
the loop is going into infinite because the terminating condition is wrong
11. the output will be 0 2 4
to execute the correct output we need to increment value of i by 1 instead of 2
12. here x is defined inside the for loop it will have to scope only in for loop has
the for loop gets over the scope of x also gets over
to correct this we should declare x globally

Guess the output

1. 1 1 1 2 2 1 2 2 3 1 3 2
2. 11
3. 0 1 2 3
4. 1 2 3 4 5
5. 3
6. 8
7. 41
8. -4