**LAB (6( TASK (1)**

**Code:**

using System;

using System.Text.RegularExpressions;

class Program

{

static void CheckJavaConstruct(string line)

{

if (Regex.IsMatch(line, @"^\s\*int\s+[a-zA-Z\_][a-zA-Z0-9\_]\*\s\*=\s\*\d+\s\*;\s\*$"))

Console.WriteLine("✔ Valid Java Variable Declaration");

else if (Regex.IsMatch(line, @"^\s\*if\s\*\(.\*\)\s\*\{?\s\*$"))

Console.WriteLine("✔ Valid Java 'if' Statement");

else if (Regex.IsMatch(line, @"^\s\*for\s\*\(.\*;.\*;.\*\)\s\*\{?\s\*$"))

Console.WriteLine("✔ Valid Java 'for' Loop");

else if (Regex.IsMatch(line, @"^\s\*System\.out\.println\s\*\(.\*\)\s\*;\s\*$"))

Console.WriteLine("✔ Valid Java Print Statement");

else

Console.WriteLine("not a valid Java language construct."); }

static void Main()

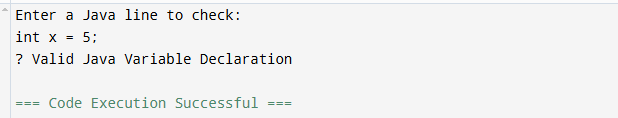
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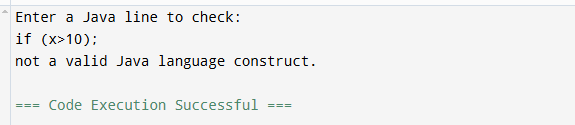
Console.WriteLine("Enter a Java line to check:");

string input = Console.ReadLine();

CheckJavaConstruct(input); } }

**Output:**

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