

Program:

```
import java.util.Scanner;
import java.util.Arrays;
import java.util.List;
public class varcheck{
    public static boolean check_validity(String var){
        if((var.charAt(0) == '_' || (Character.isLetter(var.charAt(0))))){
            for(int i=1;i<var.length();i++){
                char ch = var.charAt(i);
                if((Character.isLetter(ch)) || (Character.isDigit(ch) || (ch == '_'))){
                    continue;}
                else{
                    return false;}}}
        else{
            return false;}
        return true;}

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter variable name: ");
        String var = sc.nextLine();
        List<String> keywords = Arrays.asList("int","String","boolean","double",
        "char","if","else","for","while","do","return","public","private","protected",
        "void","static","true","false");
        boolean ans = check_validity(var);
        if (ans == true){
            boolean c = keywords.contains(var);
            if(c == true){
                System.out.println("Variable name ALREADY EXISTS as KEYWORD");}
            else{
                System.out.println("Variable name is VALID");}} }
```

```

        else{
            System.out.println("Variable name is INVALID");
        }
    }
}

```

Output:



```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\5th-Sem-Practicals> cd "d:\5th-Sem-Practicals\CD\Pract2\" ; if ($?) { javac varcheck.java } ; if ($?) { java varcheck }
Enter variable name:
int
Variable name ALREADY EXISTS as KEYWORD

PS D:\5th-Sem-Practicals\CD\Pract2> cd "d:\5th-Sem-Practicals\CD\Pract2\" ; if ($?) { javac varcheck.java } ; if ($?) { java varcheck }
Enter variable name:
tin
Variable name is VALID

PS D:\5th-Sem-Practicals\CD\Pract2> cd "d:\5th-Sem-Practicals\CD\Pract2\" ; if ($?) { javac varcheck.java } ; if ($?) { java varcheck }
Enter variable name:
011a
Variable name is INVALID

```