

Practical - 5

AIM: Write a program to recognize the valid variable name. (Note: Valid variable starts with a letter followed by any number of letters or digits)

Example program:

```
#include <stdio.h>
#include <ctype.h>
#include <stdbool.h>
bool valid_var_name(const char * str) {
    if (!str) return false;
    const char * s = str;
    while ( * s != '\0') {
        if ((s == str && isdigit( * s)) || (! * s == '_' ) && (isascii( * s) || (isctrl( * s) || ispunct( * s)))) {
            return false;
        }
        ++s;
    }
    return true;
}
int main(void) {
    const char *
    var [] = {
        "ghf%",
        "_dar",
        "^dh(j",
        ":jdi",
        "_3ss21",
        "ab@c_",
        "55agc",
        "g_akc",
        "169837",
        "demo1@2",
        "as_11",
        "darsh_123"
    };
};
```



```
for (int i = 0; i < sizeof(var) / sizeof(const char * ); ++i) {  
    printf("%s - %s\n",  
        var [i], (valid_var_name(var [i]) ?  
        "valid variable" : "invalid variable"));  
}  
return 0;  
}
```

Output:

```
$gcc -o main *.c -lm  
$main  
ghf% - valid variable  
_dar - valid variable  
^dh(j - valid variable  
:jdi - valid variable  
_3ss21 - valid variable  
ab@c_ - valid variable  
55agc - invalid variable  
g_akc - valid variable  
169837 - invalid variable  
demo1@2 - valid variable  
as_11 - valid variable  
darsh_123 - valid variable
```