```
■ D:\6thsem\bibekParajuli\compiler\lab_1.exe

--To check whether entered string is a valid comment or not--
Enter comment: //Variable Declaration
It is a single-line comment.
Do you want to continue? (y/n): y
Enter comment: /variable declaration
It is not a comment.
Do you want to continue? (y/n): y
Enter comment: /* variable declaration*/
It is a multi-line comment.
Do you want to continue? (y/n):
```

```
■ D:\6thsem\bibekParajuli\compiler\lab_2.exe

--Recognizing string generated by a*b+

--Enter string: aabb
aabb is accepted under rule 'a*b+'.

Do you want to continue? (y/n): y
Enter string: baaab
baaab is not accepted under rule 'a*b+'.

Do you want to continue? (y/n): y
Enter string: bbbbb
bbbbb is accepted under rule 'a*b+'.

Do you want to continue? (y/n):
```

```
D:\6thsem\bibekParajuli\compiler\lab_3.exe
--To check whether identifier is valid or not--
Enter an identifier: ab_1
Valid Identifier
Do you want to continue? (y/n): y

Enter an identifier: _ab1
Valid Identifier
Do you want to continue? (y/n): y

Enter an identifier: 1ab_
Not a valid identifier.

Enter an identifier: __abc
Valid Identifier
Do you want to continue? (y/n):
```

```
lex_check - Notepad
                                                                             X
File Edit Format View Help
int main()
        int a,b,c;
        c = a-b;
}
                              Ln 1, Col 1
                                                 100%
                                                        Windows (CRLF)
                                                                       UTF-8
 D:\6thsem\bibekParajuli\compiler\lab_4.exe
 -Lexical Analyzer--
int is a keyword
main is a identifier
int is a keyword
abc is a identifier
 is a identifier
 is operator
 is operator
ab is a identifier
Process exited after 9.383 seconds with return value 0
Press any key to continue . . .
```

```
D:\6thsem\bibekParajuli\compiler\lab_5.exe

--To find First--
How many number of productions? : 3
Enter production Number 1: S=AB
Enter production Number 2: A=abc
Enter production Number 3: A=d

Find the FIRST of: S

FIRST(S) = { a d }
Press 'y' to continue: y

Find the FIRST of: A

FIRST(A) = { a d }
Press 'y' to continue: y

Find the FIRST of: a

FIRST(a) = { a }
Press 'y' to continue:
```

```
D:\6thsem\bibekParajuli\compiler\lab_6.exe
--To find FOLLOW--
Enter the no. of productions: 6
Enter 6 productions
Production with multiple terms should be given as separate productions
E=TX
X=+TX
T=FY
Y=*FY
F=(E)
F=id
Find FOLLOW of --> E
FOLLOW (E) = { \$) }
Do you want to continue (Press 1 to continue...)?1
Find FOLLOW of --> X
FOLLOW (X) = { \$ } 
Do you want to continue (Press 1 to continue...)?1
Find FOLLOW of --> T
FOLLOW (T) = { \$)+ }
Do you want to continue (Press 1 to continue...)?1
Find FOLLOW of --> Y
FOLLOW (Y) = { \$)+ }
Do you want to continue (Press 1 to continue...)?1
Find FOLLOW of --> F
FOLLOW (F) = { $)+* }
Do you want to continue (Press 1 to continue...)?
```

```
D:\6thsem\bibekParajuli\compiler\lab_7.exe
 Enter the input string:i+i*i
 Stack
                         input
**********
$bt
                         i+i*i$
$bcf
                         i+i*i$
                         i+i*i$
$bci
                         +i*i$
$6
                        +i*i$
$bt+
$bcf
                        i*i$
$bci
                        i*i$
$bcf*
$bci
                         *i$
                         i$
$6
                         $
 SUCCESS
Process exited after 123.4 seconds with return value 0
Press any key to continue . . .
```

```
D:\6thsem\bibekParajuli\compiler\lab_8.exe
--SHIFT REDUCE PARSER--
GRAMMER
E->E+E
E->E/E
E->E*E
E->a/b
Enter the input string:
                          a+a*b
        Stack implementation table
Stack
                                        Action
                Input symbol
               a+a*b$
$a
                +a*b$
                                        shift a
$E
                +a*b $
                                        E->a
$E+
                 a*b$
                                        shift +
$E+a
                  *b$
                                        shift a
$E+E
                   *b $
                                        E->a
$E
                   *b $
                                        E->E*E
$E*
                                       shift *
                   b$
$E*b
                   $
                                       shift b
$E*E
                    $
                                        E->b
Process exited after 15.42 seconds with return value 0
Press any key to continue . . .
```

