

Name : Sahil Sunil Wadkar

Class :TY Div:A

```
% {
int op = 0,i;
float a, b;
% }
dig[0-9]+|([0-9]*)."([0-9]+)
add"+"
sub "-"
mul "*"
div "/"
pow "^"
ln\n
%%
{ dig } { digi(); }
{ add } { op=1; }
{ sub } { op=2; }
{ mul } { op=3; }
{ div } { op=4; }
{ pow } { op=5; }
{ ln } { printf("\n The Answer :%f\n\n",a); }
%%
digi()
{
if(op==0)
a=atof(yytext);
else
{
b=atof(yytext);
switch(op)
{
case 1:a=a+b;
break;
case 2:a=a-b;
break;
case 3:a=a*b;
break;
case 4:a=a/b;
break;case 5:for(i=a;b>1;b--)
a=a*i;
break;
}
op=0;
}
}
main(int argv,char*argc[])
{
yylex();
}
yywrap()
{
```

```
return 1;
}
```

OUTPUT:

```
sp@sp-OptiPlex-3010:~$ cd ~/Desktop
sp@sp-OptiPlex-3010:~/Desktop$ flex calc.l
sp@sp-OptiPlex-3010:~/Desktop$ gcc lex.yy.c
calc.l: In function 'yylex':
calc.l:13:2: warning: implicit declaration of function 'digi'; did you mean 'div'? [-Wimplicit-function-declaration]
 {dig} {digi();}
      ^~~~~~
      div
calc.l: At top level:
calc.l:21:1: warning: return type defaults to 'int' [-Wimplicit-int]
 digi()
      ^~~~~~
calc.l:44:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(int argv,char*argc[])
      ^~~~~~
calc.l:48:1: warning: return type defaults to 'int' [-Wimplicit-int]
 yywrap()
      ^~~~~~
sp@sp-OptiPlex-3010:~/Desktop$ ./a.out
6+4

The Answer :10.000000

5*2

The Answer :10.000000

4/2

The Answer :2.000000

7-2

The Answer :5.000000
```