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Class :TY Div:B Batch: T4

```
%{
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
```