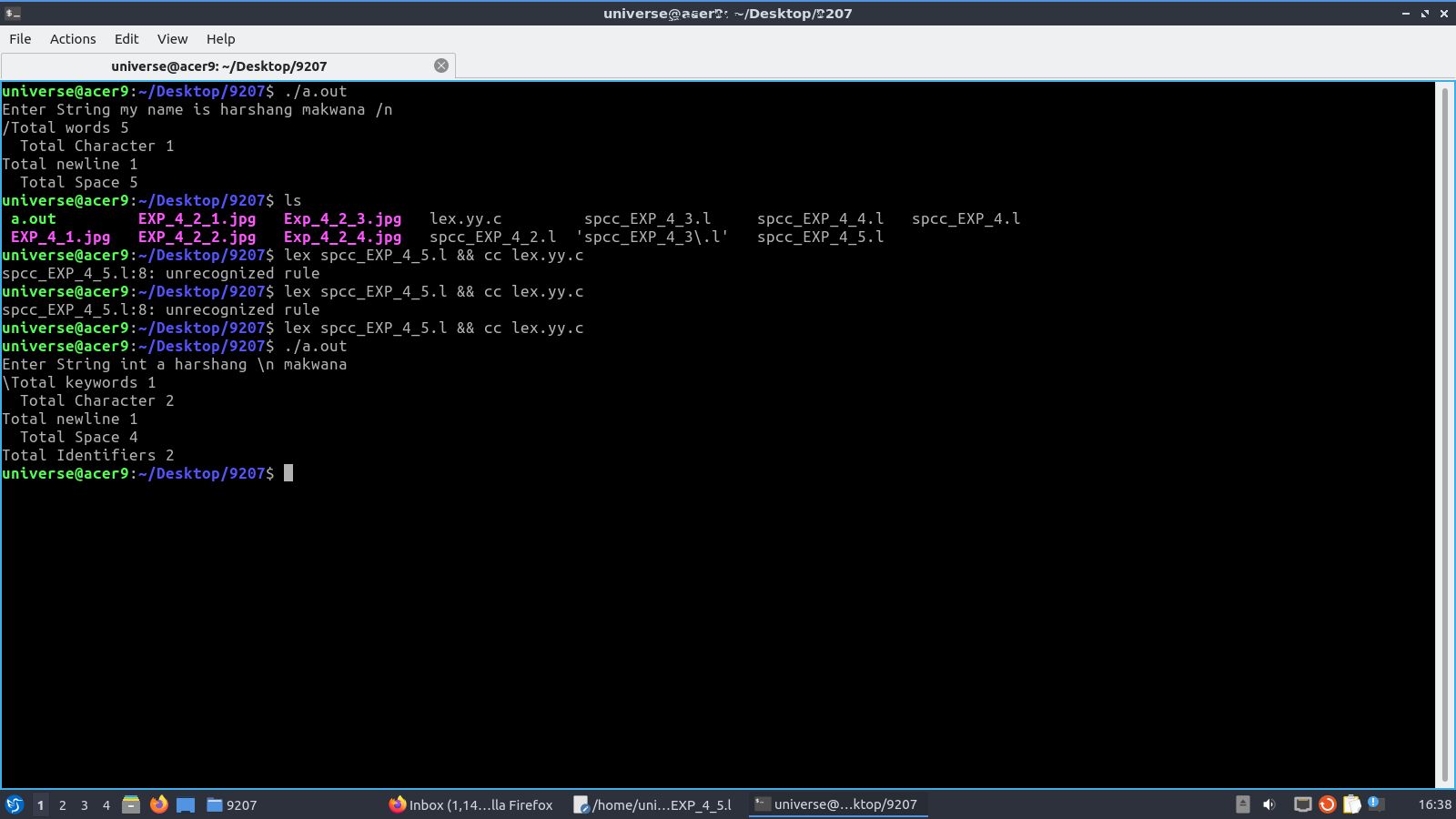
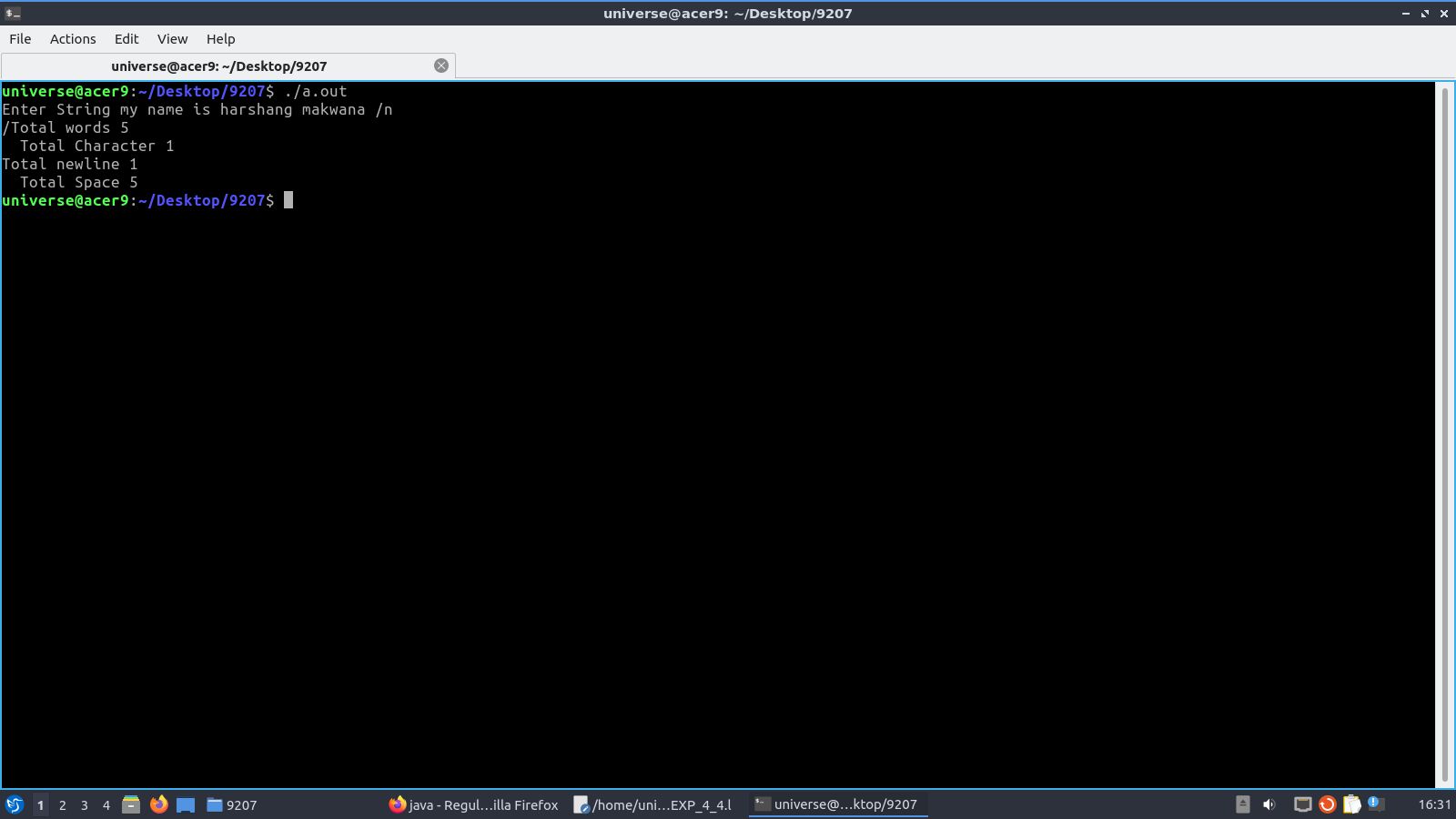
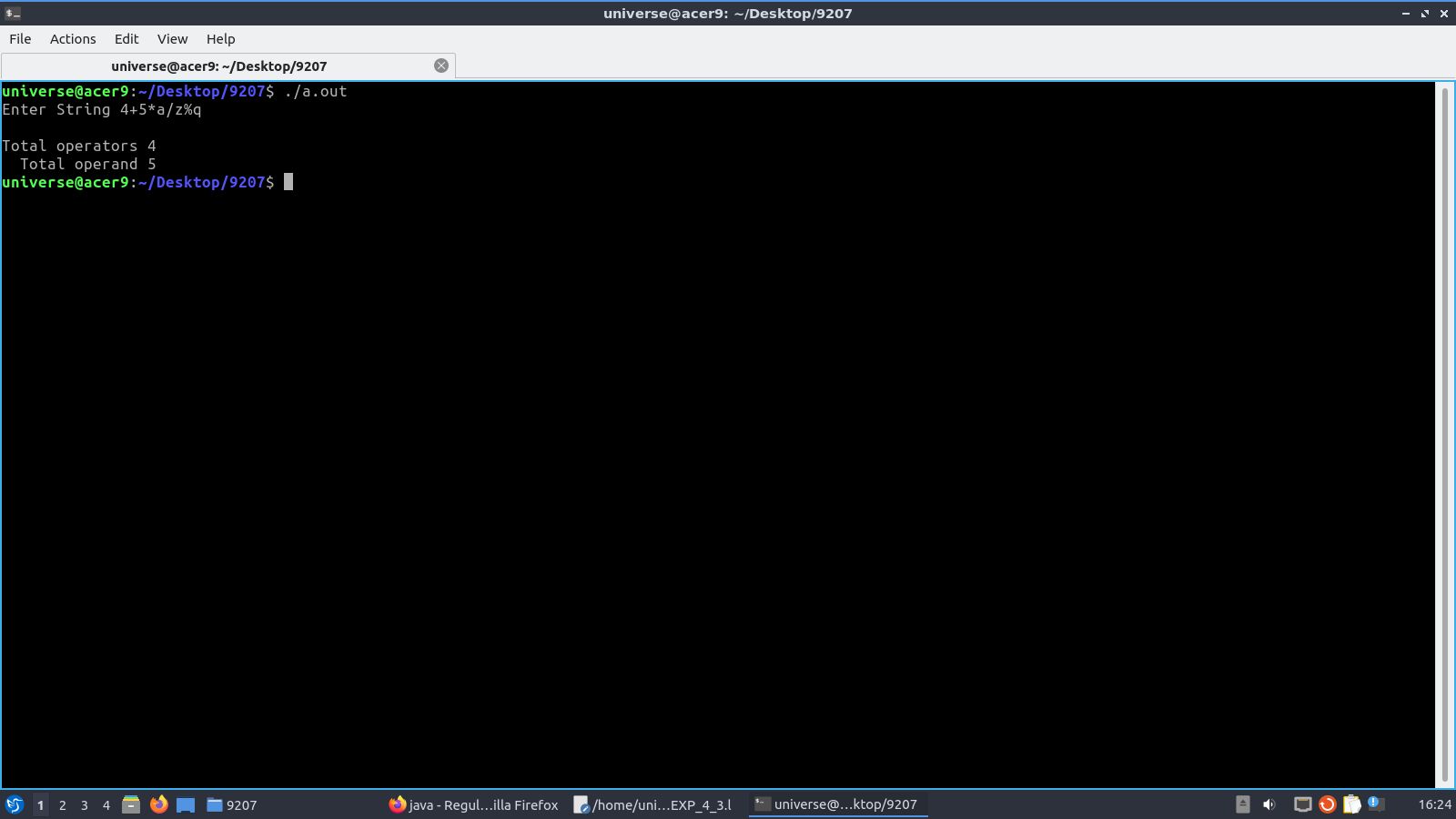
****

%{

#include<stdio.h>

int positive = 0,negative = 0,decimalpositive = 0 , decimalnegative = 0;

%}

%%

[-][0-9]+ {negative++ ;}

[-][0-9]+\.[0-9]+ {decimalnegative++;}

[+]?[0-9] {positive++ ;}

[+]?[0-9]\.[0-9]+ {decimalpositive++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

printf("Total Positive %d \n " , positive );

printf("Total Negative %d \n",negative);

printf(" Total floating Positive %d \n ",decimalpositive);

printf("Total floating negative %d \n",decimalnegative);

}

2:

%{

#include<stdio.h>

int operator = 0 , operand = 0;

%}

%%

[\+\-\\*\\\^] {operator++;}

[a-z A-z] {operand++;}

[0-9] {operand++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

printf("Total Positive %d \n " , positive );

printf("Total Negative %d \n",negative);

printf(" Total floating Positive %d \n ",decimalpositive);

printf("Total floating negative %d \n",decimalnegative);

}

3 :

%{

#include<stdio.h>

int operator = 0 , operand = 0;

%}

%%

[-+/\*^%] {operator++;}

[a-zA-z0-9] {operand++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

printf("Total operators %d \n " , operator );

printf("Total operand %d \n", operand);

}

4: %{

#include<stdio.h>

int space = 0 ,character = 0, newline = 0 , words = 0;

%}

%%

[a-zA-Z]{1} {character++;}

[a-zA-Z]{2,} {words++;}

[ ] {space++;}

[\n] {newline++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

printf("Total words %d \n " , words );

printf("Total Character %d \n", character);

printf("Total newline %d \n " , newline );

printf("Total Space %d \n", space);

}

5:

%{

#include<stdio.h>

int space = 0 ,character = 0, newline = 0 , keyword = 0 , identifiers = 0;

%}

%%

[a-zA-Z]{1} {character++;}

(int|float|double|return) {keyword++;}

[\_a-zA-Z][a-zA-Z]\* {identifiers++;}

[\n] {newline++;}

[ ] {space++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

printf("Total keywords %d \n " , keyword );

printf("Total Character %d \n", character);

printf("Total newline %d \n " , newline );

printf("Total Space %d \n", space);

printf("Total Identifiers %d \n", identifiers);

}

6:

%{

#include<stdio.h>

int vowel = 0 , consonent = 0;

%}

%%

[aeiou] {vowel++;}

[a-zA-z] {consonent++;}

%%

int yywrap() {

return 1;

}

int main() {

printf("Enter String ");

yylex();

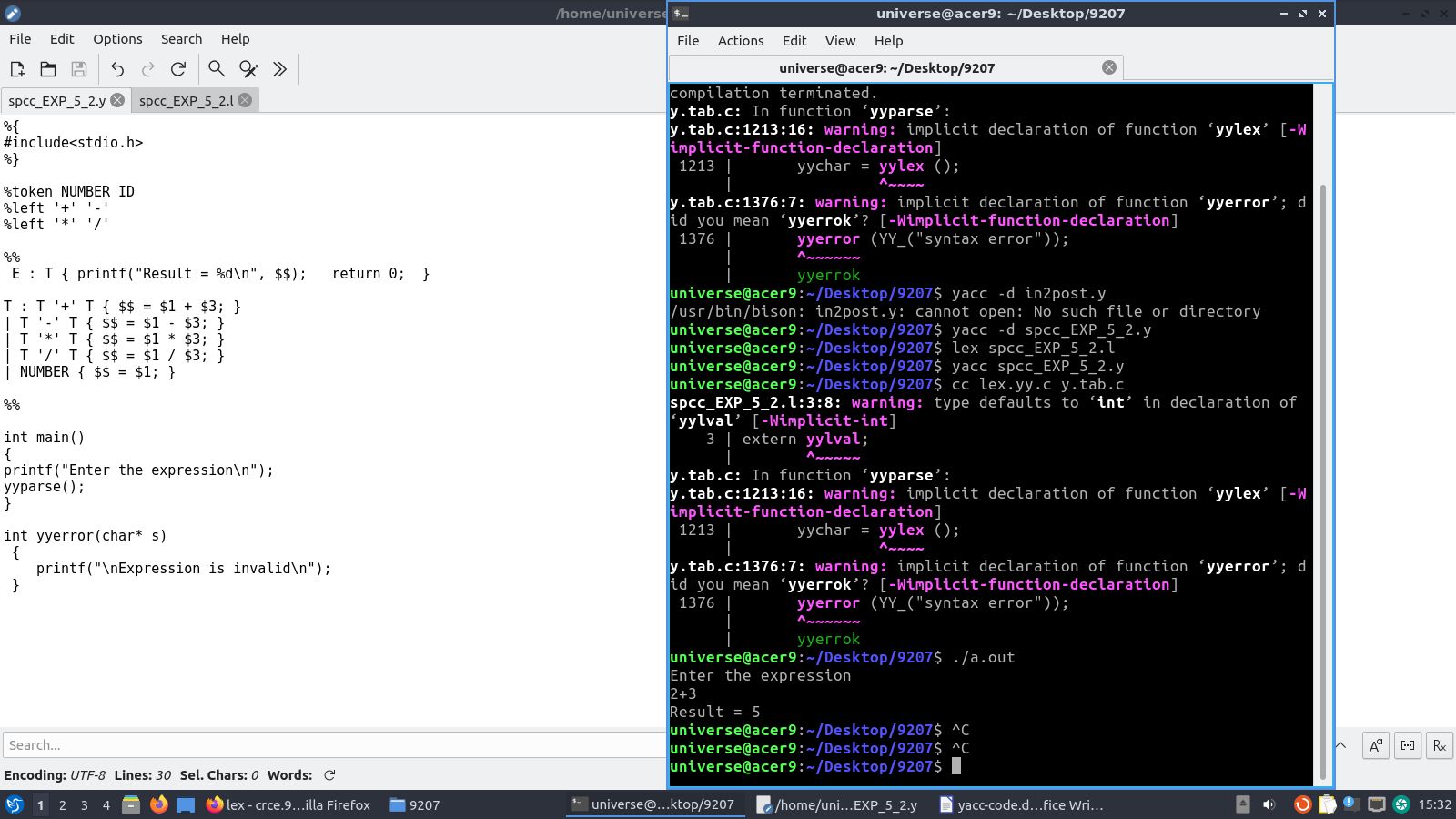
printf("Final Answer \n");

printf("Vowel are %d \n" ,vowel);

printf("Consonent are %d" , consonent);

}

**Output :**

****