Project – Part 3 (Semantic Analyzer)

Execution example:

```
int main(){
int y = 5;
while(y<10){</pre>
y = y+1;
printf("Value is %d", y);
void growing(){
float g = 107.5;
float o = 88.5;
float sum;
for(int i = 0; i < 10; i = i + 1){
g = g + o;
o = o - g;
sum = o + g;
printf("Sum is %d", sum);
int function(int number){
int down = 10;
int up = 100;
if(number<155){</pre>
number = number * up;
else{
number = number / down;
}
return number;
}
float func(int kk){
float gf = 109.5;
do{
gf = gf + 20.5;
kk = kk + 30;
}while(gf<500.5)</pre>
```

```
return kk;
}
float p = 10;
int f = 105.5;

j = 207.5;

char c = '$';
char c = '&';

return 0;
}
```

```
Parsing is starting:

Stop! Semantic error in the line : 43 || Type mismatch for 'kk'!

Stop! Semantic error in the line : 49 || Type mismatch for 'p'!

Stop! Semantic error in the line : 50 || Type mismatch for 'f'!

Stop! Semantic error in the line : 52 || Variable or function 'j' is undeclared

Stop! Semantic error in the line : 55 || Variable or function 'c' is already defined End of parsing!
```