ID: 802319354 2 m = 9/2 00 05/4 /ens/

```
Input Code:
int x = 10;
float y;
int z = 5;
if (x > 0) {
    y = x * 2.0;
} else {
    y = x / 6 + z;
}
float q = 2.4;
```

IDENTIFIER	x	ĺ	
OPERATOR	/	į	
INT_CONSTANT	6	į	
OPERATOR	+	-	
IDENTIFIER	z	<u>_</u>	
PUNCTUATION	;	-	
PUNCTUATION	}	 	
KEYWORD	f1	+ oat	
IDENTIFIER	q	-	
OPERATOR	=	 	
FLOAT_CONSTANT	2.	4	
+ PUNCTUATION	† ;		
+	+	+	

```
input: x + 10 * y
Top-Down Parsing successful!
    "type": "E",
    "children": [
              "type": "IDENTIFIER",
              "value": "x",
              "children": []
              "type": "+",
              "value": "+",
              "children": []
                                                 FIRST Sets:
         },
                                                 FIRST(E): {'num', 'id', '(')
FIRST(F): {'num', '(', 'id')
FIRST(T): {'num', 'id', '(')
              "type": "INT_CONSTANT",
              "value": "10",
              "children": []
         },
                                                 FOLLOW Sets:
              "type": "*",
                                                 FOLLOW(E): {')', '+', FOLLOW(F): {')', '/', FOLLOW(T): {')', _'+',
              "value": "*",
              "children": []
         },
                                                 PS D:\compiler>
              "type": "IDENTIFIER",
              "value": "y",
              "children": []
```