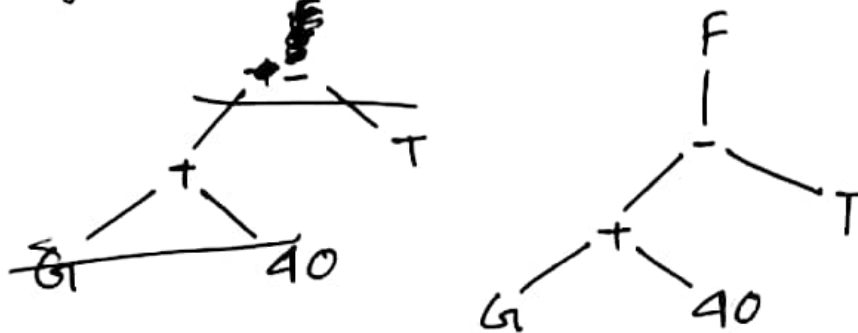


Answer to the Question No-1

Given expression $\rightarrow F = G + 40 - T$

(a) AST for the given expression



(b) Stack Machine Code for given expression

push G
 push 40
 add
 push T
 subtract
 assign F

(c) Three Address Code for given expression-

$t_1 \leftarrow G$
 $t_2 \leftarrow 40$
 $t_3 \leftarrow t_1 + t_2$
 $t_4 \leftarrow T$
 $t_5 \leftarrow t_3 - t_4$

$t_5 \rightarrow F$

Answer to the Question No-2

Given →

```
1. int main() {  
2.     int i = 0;  
3.     for(i = 0; i < 10; i++) {  
4.         if(i < 10) printf("Geeks", i);  
5.         else {  
6.             printf("Quiz");  
7.         }  
8.     }  
9.     return 0;  
}
```

Control flow graph for the given code:

