TASK:

TASK H1: with each of the 4 marked statements immediately below, explain, in plain English,

- a) what the statement does and
- b) its purpose in the program.

TASK H1.4 Explain this statement

```
typedef struct {
  StackElement contents[MAXSTACKSIZE];
int top;
} Stack;
```

Answer:

- H1.1: MAXSTACKSIZE is a constant that represents integer value 5. This variable is used in structure as a size of "contents" array.
- H1.2: BOTTOMOFSTACK is a constant that represents integer value -1. In the program this variable will represent the state when the Stack is empty -. if(top == BOTTOMOFSTACK) /*than Stack is empty*/
- H1.3: StackElement declaration of a new type that represents char(or other type you need). In C programs that approach is used to enable template classes. Each time you change the type in this typedef you change the template specification for **Stack** structure.
- H1.4: This statement determines new type **Stack** that represents template structure with array "**contents**" and int "**top**" variable. To create an instance you need: Stack [variablename];