

Assignment D-26.

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Q. Explain the types of stack.

Ans: There are two types of stack:

① register stack.

② memory stack.

Register stack:

The register stack is also a memory device present in the memory unit. but it handles only a small amount of data. The stack depth is always limited in the register stack, because the size of the register stack is very small compared to the memory.

Memory stack:

In the memory stack, the depth is flexible. It occupies a large amount of memory data, whereas in the register stack only a finite number of memory words will be stored.

Q. Write down the applications of stack.

Ans. Applications of stack:

- ① Evaluation of Arithmetic Expression.
- ② Backtracking.
- ③ Delimiter checking.
- ④ Reverse a Data.
- ⑤ Processing Function Calls.