Vaibhar J. The stack is a LIFO! Last Interest Dut) data structure implemented the RAM area and is used to steere address & data when the microprocessor pranches to Sub-routine. It is used to store the return address bypushing it out the stack). It is also lise in sétuation when two values of registers og register pai he Suappea In case of PUSH operation the stack plainter register and new Sata item used to insert on the top of the stack. In case of PDF operation; the data item will have toon to be don'ted the top of the stack, and stack pointer registers will get increased by the value Vaiblan

Vousher (3) The A cultivoutine is a sequence of program instructions that perform a specific task, packaged as a mit. This unit can then be used in programs wherever that particular task have to be performed. It is often coded so that it can be called several times and from.
Several places during one execution
of the program, including from
Tother sub-routines, and then
return to the next instruction after the call, once the sule routines task is done. It is implounented by CALL & RET instructions. Types of subroutines (1) Unconditional Call Instruction (2) conditional Call Instruction 2) Unconditional Return Instruction. (2) Conditional Return Instruction