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|  | **DEPARTMENT OF COMPUTER ENGINEERING** |

**Experiment No. 1,2,3,4**

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| Semester | S.E-Semester IV – Computer Engineering |
| Subject | Micro Processor |
| Subject Professor In-charge | Prof. Suvarna Bhat |
| Assisting Teachers | Prof. Suvarna Bhat |

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| Student Name – Deep Salunkhe |
| Roll Number – 21102A0014 |
| Division and Batch – Division A, Batch 1 |
| Date of Implementation – |
| Experiment Title: 1) Study of tools used for programming of microprocessors (TASM) |
| TASM (Turbo Assembler) is a popular tool for programming microprocessors that was developed by Borland International. It is a widely used assembly language development tool that is used to develop software for microprocessors and microcontrollers. Here are some important aspects of TASM:   1. Compatibility: TASM is compatible with many microprocessors and microcontrollers, including the 8086, 80286, 80386, 80486, Pentium, Pentium Pro, and Pentium II processors. It can also be used to program other microcontrollers, such as the 8051, AVR, and PIC microcontrollers. 2. Features: TASM provides many features that make it an ideal tool for microprocessor programming. It includes support for macros, conditional assembly, and includes a wide range of instructions and directives that can be used to develop complex programs. 3. Syntax: TASM uses the Intel syntax for assembly language programming, which is a widely used standard for assembly language programming. The syntax is easy to understand and use, and it allows programmers to write efficient and optimized code for microprocessors. 4. Debugging: TASM includes a built-in debugger that allows programmers to debug their programs and identify errors in their code. The debugger provides a range of features, including breakpoints, step-by-step execution, and memory inspection. 5. IDE: TASM can be used with a variety of integrated development environments (IDEs), including Borland's own Turbo C++ IDE. This allows programmers to develop and test their code in a user-friendly environment, which can help to speed up development time.   Overall, TASM is a powerful and versatile tool for programming microprocessors and microcontrollers. Its features and compatibility with many different processors make it a popular choice among programmers who need to develop efficient and optimized code for embedded systems.  Top of Form |
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| Experiment Title: 2) Develop Assembly language program using 8086 microprocessor for addition, and subtraction of 16/32 bit numbers |
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| Experiment Title: 3) Develop Assembly language program using 8086 microprocessor for 16bit multiplication, 16-bit division |
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| Experiment Title: 4) Develop Assembly language program using 8086 microprocessor for finding largest/smallest number from block of 16 bit numbers |
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