

J.H. P.G. Govt. College, Betul (MP)

B.sc. I Year (Major) Computer Science Practical List

1. To study basic gates(AND,OR,NOT) and verify their truth table.
2. To convert a given binary number to Gray code using IC 7486.
3. To study and verify NAND as Universal gate using IC 7400.
4. To study half adder using basic gates and verify its truth table.
5. To study Full adder using basic gates and verify its truth table.
6. To realize basic gates (AND,OR,NOT) from Universal gate (NAND and NOR).
7. To design and construct RS flip flop using gates and verify the truth table.
8. To design and construct JK flip flop using gates and verify the truth table.
9. To verify De-Morgan's Theorem.

B.sc. I Year (Minor) Computer Science Practical List

1. Write a C++ program to reverse a given number.
2. Write a C++ program to add two numbers using class.
3. Write a C++ program to check whether a given number is prime.
4. Write a C++ program to check whether a given year is leap year or not.
5. Write a C++ program to add two numbers using functions.
6. Write a C++ program to accept and display the details of an employee using aclass
7. Write a C++ program to compare two strings using string functions.
8. Write a C++ program to calculate the area of rectangle, square using function overloading.
9. Write a C++ program to add two numbers using pointers.
10. Write a C++ program to find the factorial of a given number.
11. Write a C++ program to search for an element using binary search.
12. Write a C++ program to sort an array in ascending order.
13. Write a C++ program to find the factorial of a given number using recursion.
14. Write a C++ program to check whether a given number is even or odd.
15. Write a C++ program to demonstrate the usage of Inline function. 16. Write a C++ program to demonstrate parameter passing mechanism using pass by value method.
16. Write a C++ program to demonstrate the usage of a constructor and destructor in a class.
17. Write a C++ program to demonstrate simple inheritance.
18. Write a C++ program to calculate volume of cube, cylinder and rectangle using function overloading.