

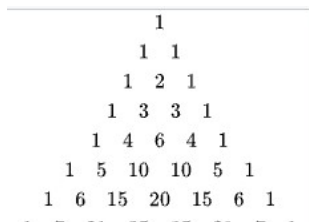
# Jadavpur Vidyapith

## Practical Question

### Subject: Computer Science

#### C programming

1. A library charges a fine for every book returned late. Prior to 15 days the late charges for first 5 days is 50 paise/day, for 6 to 10 days fine is 1 rupee/day and above 10 days fine is 2 rupees/day. If you return the book after 30 days your membership will be cancelled. Write a program to accept the number of days the member is late to return the book and display the fine with appropriate message.
2. A positive integer is entered through the keyboard. Write a program in C using function to obtain the prime factors of this number.
3. write a program to create a pascal triangle.



4. write a program to add first 10 terms of the following series.

$$\frac{1}{1!} + \frac{2}{2!} + \frac{3}{3!} + \dots$$

5. Write a c program to find the first 20 number of Fibonacci series.  
0,1,1,2,3,5,8,13..... And so on
6. Write a c program to receive an integer and find its equivalent binary number.
7. If the three sides of a triangle are entered through the keyboard, write a program to check whether the triangle is isosceles, equilateral or right-angled triangle.
8. write a program to generate all combination of A,B,C,D.
9. Write a C program to reverse a number which is entered by the user and check weather it is same or different.
10. write a C program to find first 5 Armstrong number.  
Armstrong number:  $153 = 1^3 + 5^3 + 3^3$