

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL20CS83S51170031

To  
ARNAB CHAKRABORTY  
117, SAPTAGRAM STATION ROAD, DUM DUM(N),  
  
BIRATI, KOLKATA - 700051.  
KOLKATA  
WEST BENGAL - 700051  
PH. NO :8017787360



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

**ARNAB CHAKRABORTY**

for successfully completing the course

## The Joy of Computing using Python

with a consolidated score of **87** %

Online Assignments	24.38/25	Programming Exam	25/25	Proctored Exam	38/50
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Total number of candidates certified in this course: **5563**



*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman  
Centre for Continuing Education, IITM

Sep-Dec 2020  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



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To validate and check scores: <https://nptel.ac.in/noc>