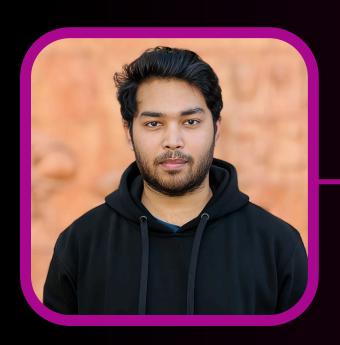


C Programming

Module 02

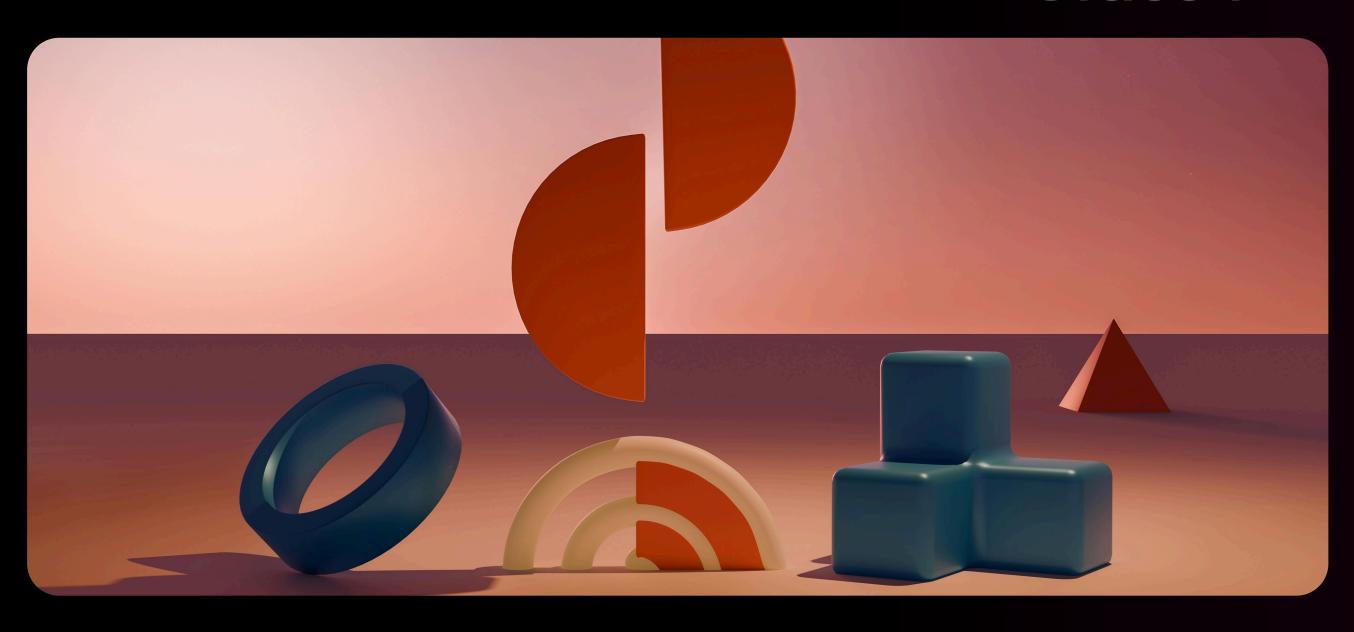


Course Instructor
Rudra Kaiser

Pattern Printing

Loops based Patterns

Class 12



ASCII Code

- ASCII stands for American Standard Code for Information Interchange
- It is a character encoding system
- Every character (letters, digits, symbols, control keys) is assigned a numeric value
- These numeric values are called ASCII codes

- $A \rightarrow 65$
- $a \rightarrow 97$
- $0 \rightarrow 48$
- Space → 32
- Enter $(\n) \rightarrow 10$

Practice Problem

• Find the ASCII value for a specific character and the character should be given by the user.

Square

EEEEE

```
1 1 1 1 1
                                     1 2 3 4 5
                         2 2 2 2 2
                                      1 2 3 4 5
                         3 3 3 3 3
                                      1 2 3 4 5
                         4 4 4 4 4
                                      1 2 3 4 5
                                      1 2 3 4 5
                         5 5 5 5 5
AAAAA
                                      abcde
            A B C D E
                         a a a a a
B B B B
                         bbbbb
                                      abcde
            A B C D E
C C C C C
                                     abcde
            A B C D E
                         CCCCC
D D D D
                         ddddd
                                      abcde
            A B C D E
```

e e e e e

A B C D E

abcde

Triangle - 1

```
1
1 2
              2 2
1 2 3
              3 3 3
1 2 3 4
              4 4 4 4
1 2 3 4 5
              5 5 5 5 5
1 2 3 4 5
              5 5 5 5 5
1 2 3 4
              4 4 4 4
1 2 3
              3 3 3
1 2
              2 2
1
```

Triangle - 2



Hybrid Pattern

```
Enter a number = 6
```

```
Enter a number = 6
```

