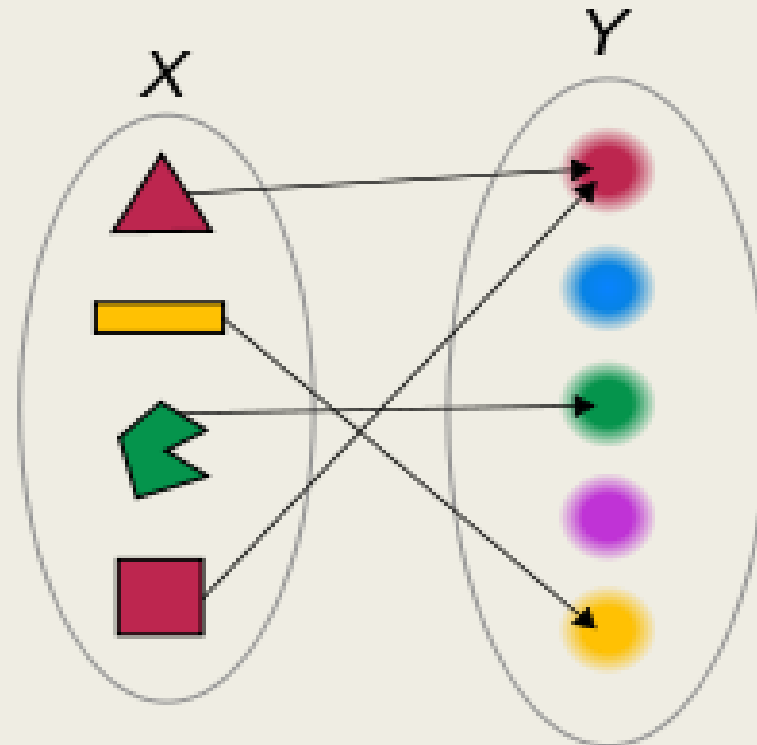


A thick black L-shaped frame is positioned around the text. It starts at the top-left, goes right, then down, then right again, and finally down to the bottom-right corner.

APPLICATIONS OF FUNCTIONS

Function



Applications of functions

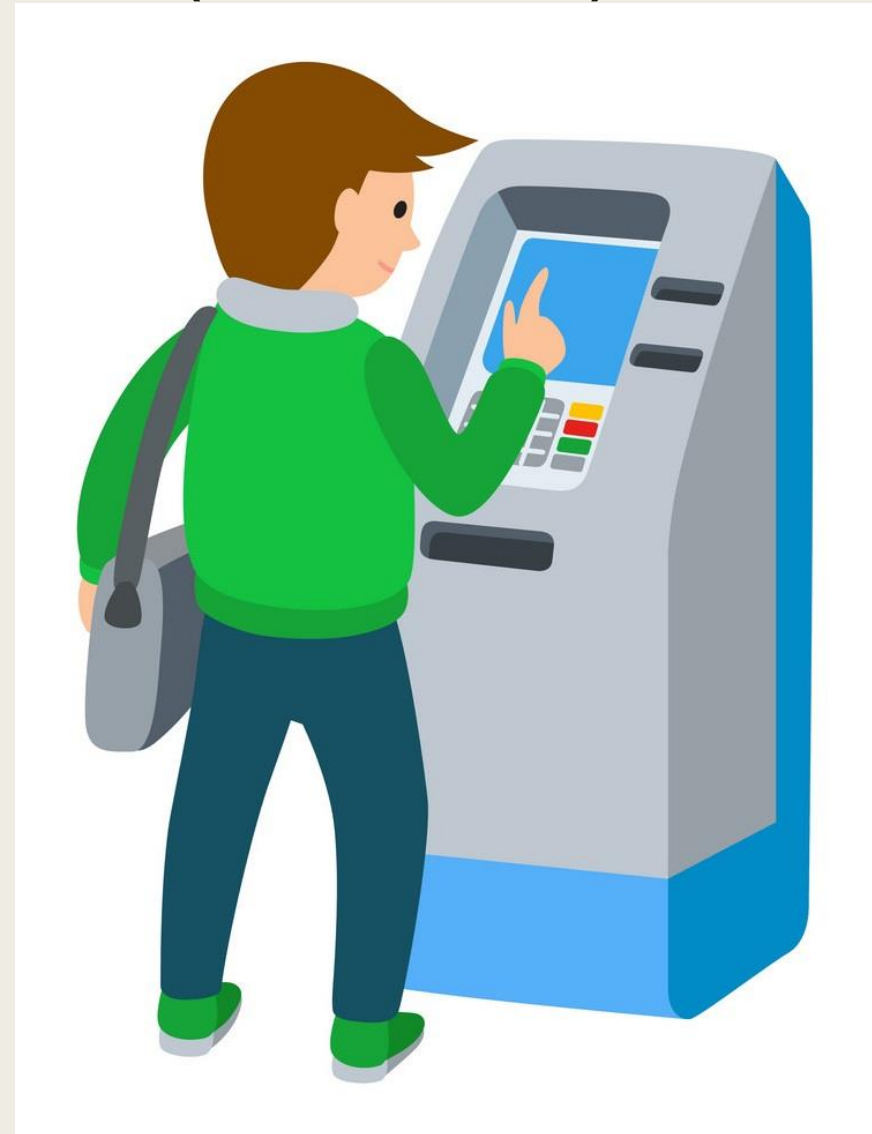
- Aadhaar card
- Every Indian citizen holds a unique 12-digit aadhaar number printed on aadhaar card. Only one aadhaar number is allotted to one individual. So, this is **one-to-one mapping/function**.



Applications of functions (Contd...)

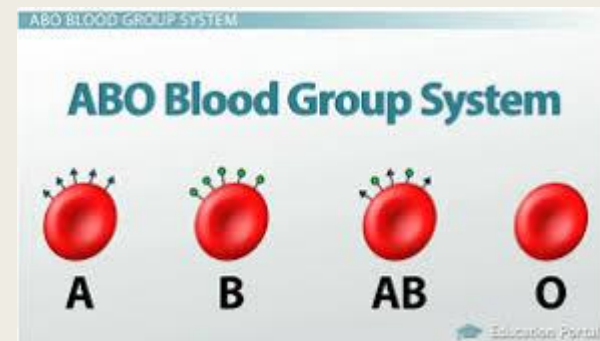
- ATM

ATM debit card is mapped to a single Savings / current bank account. Only one bank account is linked with a debit card. This is an example of **One-to-one mapping/function**.



Applications of functions (Contd...)

- Blood group mapping
- Every human being has one of the four blood groups – A, B, AB and O. So, blood group of all Human beings can be mapped to only these four blood groups. This is an example of **many-to-one mapping/function**.



Applications of functions (Contd...)

- Recursive functions

- Palindrome checker

- *Reverse strings can be obtained from recursive functions.*

- Decimal to binary conversion

- *Decimal numbers are repeatedly divided by 2 in this process, which can be done easily by recursive functions.*

- Balanced parenthesis checker

- *Opening and closing of parenthesis can be matched using recursive functions.*

Activity time

Assume you have an Amazon.in coupon of getting 50 Rs. off on a particular item and also, the item you think of buying is on 20% off. What do you think is better : taking Rs. 50 off first and then applying discount or applying discount first and then taking Rs. 50 off?