Prinson D'souza
4 Section

C Program to check weather a given number
is palindrome or not using function

Algorithm

1) start
2) i/p num
3) if (result == 1)
    printf ("%d is Palindrome)
   else
    printf ("%d is not Palindrome)
4) stop

int is Palindrome (int num)

1) Entry
2) rnum = 0
3) while (n>0)
    r = n%10
    rnum = rnum * 10 + r;
    n = n/10;
   end while
4) if (rnum = num)
    a return "
   else
    return 0
5) Exit

```
                    ( Start )
                        |
                        v
                 / I/P num /
                        |
                        v
              +------------------+
              | result = is      |----------------+
              | Palindrom        |                |
              +------------------+                |
                        |                         |
                        v                         |
                      / if \                      |
                     / (result==1) \              |
                     \      ?      /              |
                  +---+\         /+---+           |
                  |      \     /     |            |
                  v                  v            |
          / % is         /    / % is not    /     |
          / Palindrome  /     / Palindrom  /      |
          +------------+      +------------+       |
                  |                  |            |
                  v                  |            |
              ( exit )               +------------+
                                     v
                                  ( Entry )
                                     |
                                     v
                              +-------------+
                              | n = num     |
                              +-------------+
                                     |
                                     v
                                  / while \
                                 / (n>0)  /
                                  \      /
                                     | T
                                     v
                          +---------------------+
                          | r = n ./. 10        |
                          | rnum = rnum *10     |
                          |           + r       |
                          | n = n ./. 10        |
                          +---------------------+
                                     |
                                     v
                                   / if \
                                  / (rnum==num) \
                                  \      ?      /
                          +------+\           /
                          |        \        /
                          v                 v
                  +-----------+      +-----------+
                  | return = 0 |     | return 1  |
                  +-----------+      +-----------+
                          |                 |
                          +--------+--------+
                                   v
                                ( End )
```