Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa campus Computer Networks Second Semester 2015-2016 Lab 3 Worksheet

Questions:

 Modify the given DNS resolution program (dns_wiki.c) to try queries of type ./dns_wiki dns_name service

few sample services are: http, smtp, www.google.com, www.bits-pilani.ac.in
Specify hints to the getaddrinfo() by indicating the address family or the socket type.

One example output is:

\$./dns_wiki www.google.com http
IPv4,SOCK_STREAM,TCP,216.58.213.100
hostname: lhr25s02-in-f100.1e100.net
IPv4,SOCK_DGRAM,UDP,216.58.213.100
hostname: lhr25s02-in-f4.1e100.net
IPv6,SOCK_STREAM,TCP,::2a00:1450:4009:80f:0:0
hostname: lhr25s02-in-x04.1e100.net
IPv6,SOCK_DGRAM,UDP,::2a00:1450:4009:80f:0:0
hostname: lhr25s02-in-x2004.1e100.net

2. Modify the echo TCP server to work as concurrent server with the help of fork(). Write enough code to make sure the server child processes do not remain after their work is done (take care of zombie children).