**Q 1 i :-**

For answer to thins program, run the submitted program file (.py file) and you will get the answer in the terminal output. Some of the output is also visible in the snapshots submitted for the Q1.

**Q 1 ii :-**

Some IP-addresses, their domain names, and outputs :

|  |  |  |
| --- | --- | --- |
| Index | IP Address | Domain |
| 1 | 18.66.40.180 | server-18-66-40-180.bom78. r.cloudfront.net |
| 2 | 142.250.199.164 | bom07s37-in-f4.1e100.net |
| 3 | 146.185.79.121 | swisscows.ch |
| 4 | 52.59.4.170 | compute.amazonaws.com |
| 5 | 142.250.192.66 | bom12s16-in-f2.1e100.net |
| 6 | 13.35.222.59 | server-13-35-222-59.del54.r.cloudfront.net |
| 7 | 192.168.122.197 | swisscows.com |

|  |  |
| --- | --- |
| 1 | dig -x 18.66.40.180 +noall +answer  180.40.66.18.in-addr.arpa. 14009 IN PTR server-18-66-40-180.bom78. r.cloudfront.net. |
| 2 | dig -x 142.250.199.164 +noall +answer  164.199.250.142.in-addr.arpa. 60865 IN PTR bom07s37-in-f4.1e100.net. |
| 3 | dig -x 146.185.79.121 +noall +answer  121.79.185.146.in-addr.arpa. 21590 IN CNAME 121.79-185-146.in-addr. swisscows.ch.  121.79-185-146.in-addr.swisscows.ch. 3591 IN PTR swisscows.com. |
| 4 | dig -x 52.59.4.170 +noall +answer  170.4.59.52.in-addr.arpa. 287 IN PTR ec2-52-59-4-170.eu-central-1.compute.amazonaws.com. |
| 5 | dig -x 142.250.192.66 +noall +answer  66.192.250.142.in-addr.arpa. 71542 IN PTR bom12s16-in-f2.1e100.net. |
| 6 | dig -x 13.35.222.59 +noall +answer  59.222.35.13.in-addr.arpa. 7899 IN PTR server-13-35-222-59.del54.r.cloudfront.net. |
| 7 | dig -x 192.168.122.197 +noall +answer  121.79-185-146.in-addr.swisscows.ch. 3485 IN PTR swisscows.com. |

Example screenshots :



