Every student should select one of those protocols based on his ID number (LAST Digit)

The allocated protocol for every research is (last digit mod 6) +1

For example the student’s ID is 20180069

Last digit is 9

The Student’s protocol number is (9 mod 6+1)=4 (Multicast Distance Vector)

1) Routing Information Protocol (RIP)

2) Open Shortest Path First (OSPF)

3) Border Gateway Protocol Version 4 (BGP4)

4) Multicast Distance Vector (DVMRP)

5) Multicast Link State (MOSPF)

6) Protocol Independent Multicast (PIM)

The name of the research file is "**Network1-ID-full name**" in English

**Evaluation metrics**

1) The protocol type, and its versions history if exist

2) The basic algorithm used including operation as well as its messages types and formats explained in a **PowerPoint presentation**

**3)** The presentation should also include narration as well as animation explaining the operation of the protcol

4) Its pros & cons and the solutions for its common problems including its usage limitations

5) Optional requirement - routing protocol sample by Wireshark

Example

<https://wiki.wireshark.org/RIP>

\*\*Notes

* All researches should be sent to this email [dr.hossam@mail2egypt.com](mailto:dr.hossam@mail2egypt.com) .
* After sending your research go to <https://docs.google.com/spreadsheets/d/1LCbCN_fUvv0R0rhrXyFbhzp4Imlr5v61GrM6w4rUySo/edit?usp=sharing> and write the submission day in this format “dd-mm-yyyy” in the allocated column.
* Deadline will be declared by the faculty admin