**Analysis for top 5 pages as per page ranking: G2 graph**

**1) WT21-B37-76:**

This page seems to be a home page of ‘The Economist’. Being a home page this page seems to be popular and also there are maximum number of in links than any page.

Hence the page is ranked first and has highest has highest possibility of being visiting as per the page rank.

**2) WT21-B37-75**:

This page seems to hold copy right license information. As the page content is copy righted to prevent it from being copied a link will be present to this page to warn of content copy right. Hence this page has links from popular pages and possibility of visiting this page is more. Even though this not much of a topic relevant page, but as per page rank it has second highest rank.

**3) WT25-B39-116:**

This page seems to be about a particular topic "Security Assurance Requirements". This topic must be most discussed topic or most mentioned topic in popular pages, hence one of the top 5-page rank even though it has less in link count compared to other 212 pages having in link count more than it.

**4) WT23-B21-53:**

This Seems to be informative page about a team on web development. There is high possibility that this team name or members name is cited in popular numerous articles and web pages which explains the high page rank. Hence more probability of visiting this web page due in links from popular pages.

**5) WT24-B26-10:**

This web site is about Psychiatry Star? run through the Psychiatric Informatics Program. This page could have been cited in popular pages or articles which might led to 5th top page rank and visited very often.

**Top 5-page analysis based on Page rank: G1 graph**

1. **Integrated\_Authority\_File**

This seems to be an authority file which helps keep track of pages in Wikipedia, like keeping track of books in a library. Hence the in link to this page seems to be from popular Wikipedia pages. Hence highest rank.

1. **National\_Diet\_Library**

This page seems to be about national diet library of japan. Most of the popular Wikipedia articles might have cited this library which have to 2nd highest page rank.

1. **United\_States**

This page is about united states. Most of the popular pages are pointing to this page which make this page 3rd top page.

1. **Japan**

This page is about Japan. Most of the popular pages are pointing to this page which make this page 4th top page.

1. **Renewable\_energy**:

This is a page on renewable energy. This page has top in link count and also most of the pages pointing to this page seems to be popular.

**Conclusion:** The page rank generated by page rank algorithm does not solely depend on just in link count to the page, but also on quality of in links. For example

WT25-B39-116 has 169 in link and most of them must be popular pages which are visited very often and in turn WT25-B39-116 gets visited very often.

**Analysis for top 5 pages as per in link count: G2**

1. **WT21-B37-76:**

1st position as per page rank

1. **WT21-B37-75:**

2nd position as per page rank

The top 2 pages are top ranked pages hence it seems appropriate that they have highest in link count.

1. **WT01-B18-225:**

This page is Online Library of Drug Policy. This seems to be search page to search about various drug policy. It has 3rd highest page in link count but ranked 12th.

The reason may be being due to that the in links to this page might not be popular. Hence the chances of visiting this page through the in link is less compared to top 11.

1. **WT08-B19-222:**

This page is general disclaimer page for TD products and services. All the web pages of TD and product and services website contain a link to this web site. Again not all the pages of TD and product and services are popular. Some pages might be and some pages might not be. Hence less changes of visiting this page compared to top 23 pages as per page rank. Hence the 24th page rank even though 3rd as per in link count.

1. **WT08-B18-400:**

This page is also a general disclaimer page for Toronto-Dominion Bank. All pages related to Toronto-Dominion Bank has link to this page. This page is ranked 9th and hence most of the in links are popular, but the changes of visiting this page is lowered due to unpopular in links compared to top 8 page as per page rank.

**Top 5-page analysis based on in link count: G1**

1. **Renewable\_energy**

This page is about Renewable\_energy and has top page as per in link count. Most of the pages pointing to this page are popular hence chances of visiting this page more as per page rank but ranked 5th as per page rank may be due to some unpopular pages.

1. **Efficient\_energy\_use**

This page talks about efficient use of energy. It has second highest in link count. But the pages pointing to this page might not be popular hence this page is not in top 5 as per page rank even though it has 2nd highest in link count.

1. **United\_States**

This page has third highest in link count and page rank. This page seems popular based on both link count and page rank.

1. **Biofuel**

This page talks about bio fuel. Most of in link to this pages are unpopular which is reason for it to be not listed in the top 5 as per page rank.

1. **Wind power**

This page talks about wind power. Most of in link to this pages are unpopular which is reason for it to be not listed in the top 5 as per page rank

**Conclusion**: In link count has more influence on page rank as the top 5 pages as per in link count are among top 25, but **popularity** of the in links matter most which has led to lower page rank of WT01-B18-225, WT08-B19-222, WT08-B18-400 even though they have very high in link count.

**Additional observation for G1:**

Since page rank is calculated only for 1000 links for G1 I think the corpus is too small to page rank among themselves. From my observation pages as per in link count seems relevant if query on energy is given. The pages as per page rank not much relevant to energy related topics.