CALCULATION OF RATINGS AND PROGRAMMING LANGUAGES

Giorgi Sazandrishvili

David Aghmashenebeli National Defence Academy of Georgia, assistant professor

ARTICLE INFO	ABSTRACT
	Determining the rating is a significant and necessary factor in any assessment and decision. Rating calculation is based on mathematical theorem and very difficult calculations. Development of technology and programming languages simplified the rating process and made it available for everyone.

Actuality. The rating has become an integral part of modern life. Nowadays there are many international and private companies, organizations, and research laboratories that provide us with a list of the survey data. Rating is a difficult and hard work that is based on probability theory, which allows for the probability of a certain event or condition that has a statistically relevant interval. In other words, according to Bayes' (English mathematician) formula, the probability is more accurately calculated through the initial and final results of the data. Bayes' formula is derived from the main axioms of probability theory, namely the conditional probability. The main feature of Bayes' theory is that it requires quite a large and complex calculation for practical use that has enabled the development of computer technologies. The development of computer technologies has improved many of the operating systems on the side of programming languages. Today the most famous programs are: C, C ++ C # java. Each of them differs from predecessors, Although they are directly descendants, because they use net framework mechanisms. Visual basic is the most different from the others, Java is a young language and designed for programming on the Internet, and if programming is not only on the Internet, It is better to refrain. As for c ++, this is a highly professional programming language and it is widely spread among the programmers. Programs written in this language have a great speed of processing information, but it is very difficult for novice programmers, so it is better for them to start writing programs with visual basic and then going to C ++. Professionals think that the most easy to use is Visual Basic. The negative side of Visual Basic is that the programs written on it work relatively slowly than C ++, but the beginner programmer will not notice it. Pascal is positioned between C and Visual Basic. Pascal does not include visual studio programming languages. The use of Pascal is effective for creating scientific-computing projects. The final choice is programmers' prerogatives.

All new based business companies are interested in calculating ratings, Programmers are trying to get into the existing market and establish a place. We can say that through programming languages, developers have the opportunity to create rating programs, applications and offer interested stakeholders to improve their income and knowledge base.

Let us consider a demonstration:

A detailed description of the rating calculation method is given by the Bayes' assessment formula

(Thomas Bayes (1701–1761) – English mathematician)

$$S = \frac{Rv + Cm}{v + m}$$

S — is the adjustment of average arithmetic scores

R — is the average arithmetic score obtained by the time factor

v — is the number of votes counted by the time factor

m — is statistical correction, m = 10.

C — is the medium obtained by the time factor from all the bank's votes. (Calculated at 24h Once).

The Program code of the formula for Python will have the following look while True:

```
r=float(raw_input("shemoitanet r \n"))
   c=float(raw_input("shemoitanet c \n"))
   v=float(raw_input("shemoitanet v \n"))
   m=10
defpirveli():
     a=r*v
     b=c*m
     k=v+m
     g=a+b
     s=g/k
     print s
pirveli()
```

The second option:

```
while True:
   r=float(raw_input("shemoitanet r \n"))
   c=float(raw_input("shemoitanet c \n"))
   v=float(raw_input("shemoitanet v \n"))
   m=10
defpirveli():
     s=((r*v)+(c*m))/(v+m)
     print s
pirveli()
```

Conclusions. While the rating is quite complicated and hard work, the existing bases of programming languages allow to write the algorithm, write the program and make the application that will enable us to get the results in parallel with the data entry. Programming languages range, the rapid growth of computer technologies, enables developers to find a great Opportunities to easily solve complex and hard-working processes.

REFERENCES

1. https://taripebi.ge/images/formula.pdf
2. https://en.wikipedia.org/wiki/Bayes_estimator
3. https://www.python.org/
4. https://lh4ckg.github.io/