



Methods and Advantages of Using Cloud Technologies in Practical Lessons

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Annotation: The relevance of the method of using cloud technologies in teaching the subject of programming is that computer and information technologies require a certain level of special training for communication from their users. How perfect this preparation is determines the quality of communication. The goal is to create programming systems that adapt to the educational process and to improve the methodological foundations of teaching the science of programming basics. This article discusses the advantages and methods of using cloud technologies in practical classes.

Keywords: Dropbox, cloud technology, GoogleDocs, CRM, ERP, Excel, file, cloud, break, goto, continuc.

It is a process that prepares future specialists to work in new conditions through cloud technology, it consists in qualitative changes in education based on previously acquired knowledge and a new approach to achieving high efficiency. The purpose of such a system is to improve the quality indicators of the educational system, which represents the essence of education, signs, opportunities, tasks, development mechanisms of stages and principles of development, and methodological recommendations for their use, as well as the process of forming the qualities of pedagogues in this regard. , it is understood to achieve high efficiency in this area.

Today, the problems of reforms in the education system are related to the potential of pedagogical personnel. Studies and analyzes are considered appropriate for the professional competence of a modern pedagogue, especially information technologies, and the use of cloud technologies in education.

Cloud technology is now rapidly entering various industries. Cloud technologies (in English, cloud services, cloud technologies) is a broad term today, the main content of which is defined as using a program or set of programs not on a user device, but on a service provider device via the Internet. providing software services. For example: file storage consists of file processing. The most common cloud services are Dropbox - file storage service, GoogleDocs - office applications, Salesforce - CRM and ERP systems. To use cloud services, in most cases, the user only needs an Internet connection and a browser, and sometimes special software applications are installed on the user's device to make it convenient to use this service. For example, you can easily do the work done in Word, Excel programs through GoogleDocs, for this you do not need to have office applications on your computer.

As a result of quality changes and high efficiency in education, as a result of introducing positive innovations in this field, quality and efficiency in education is ensured, and a pedagogical innovation process is created.

The benefits of cloud storage and services include:



- the ability to work on any document almost anywhere and on any device;
- there will be unlimited free space for data;
- ease of data transfer;
- keep copies of important information;

As a practical training task, we will consider entering the practical work on the topic of parameter loop operators break, continu and goto operators into the cloud. After we create our personal cabinet, we will go through the sequence of placing our data.

It would be appropriate for us to use a separate directory to store our data. (Fig. 1) It is very convenient for the user and for us to place our input files in an orderly manner.

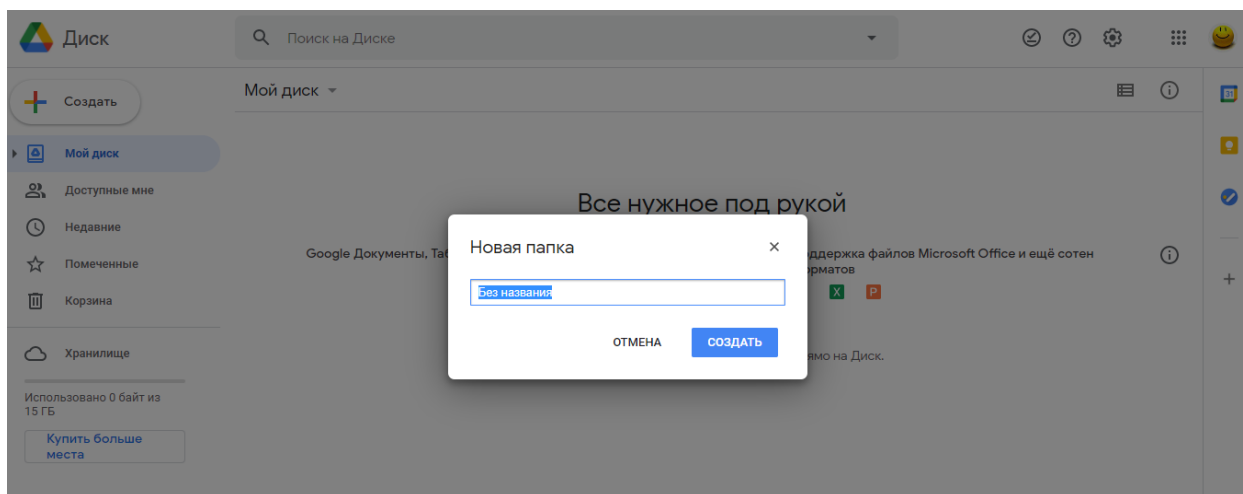


Figure 1. Create a new directory

After creating the directory, we need to create the necessary file. For this, we perform the following sequence of actions. (Fig. 2)

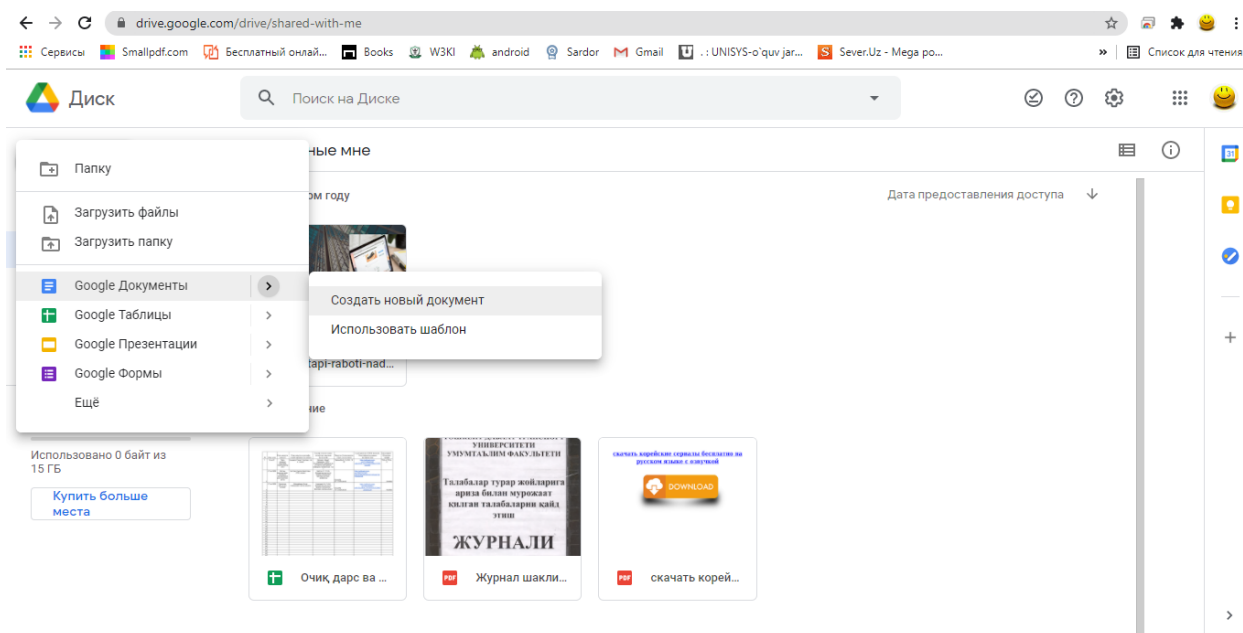


Figure 2. Create a file in the directory



In the next step we will need to download and upload the file we want to edit. We will download the file we want to upload in this section. Show the file stored in the memory of our personal computer. We select the desired file from among our files. (Figure 3)

The file we want to upload in the next step is being downloaded to Google Drive. It doesn't take much time, the speed of our internet and the size of our data are of course important. In the next step, as you can see, the file we uploaded will be edited. (Figure 4) It is enough to save the uploaded file.

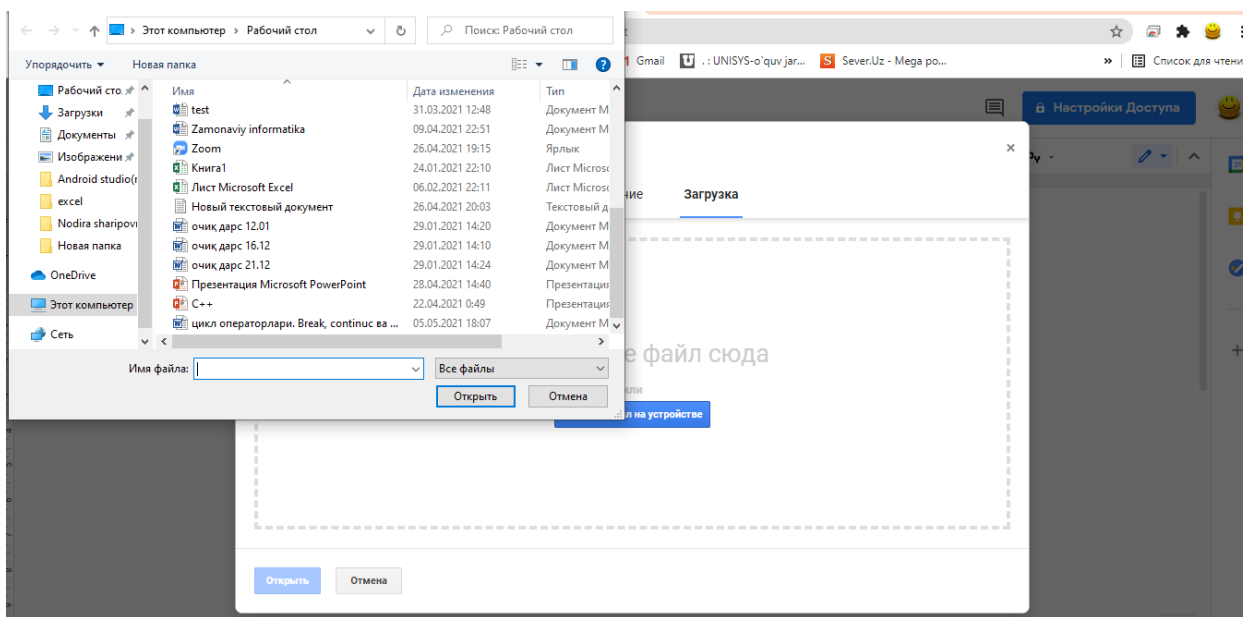


Figure 3. Upload a file to the selected directory

The next step shows us the last file we uploaded.

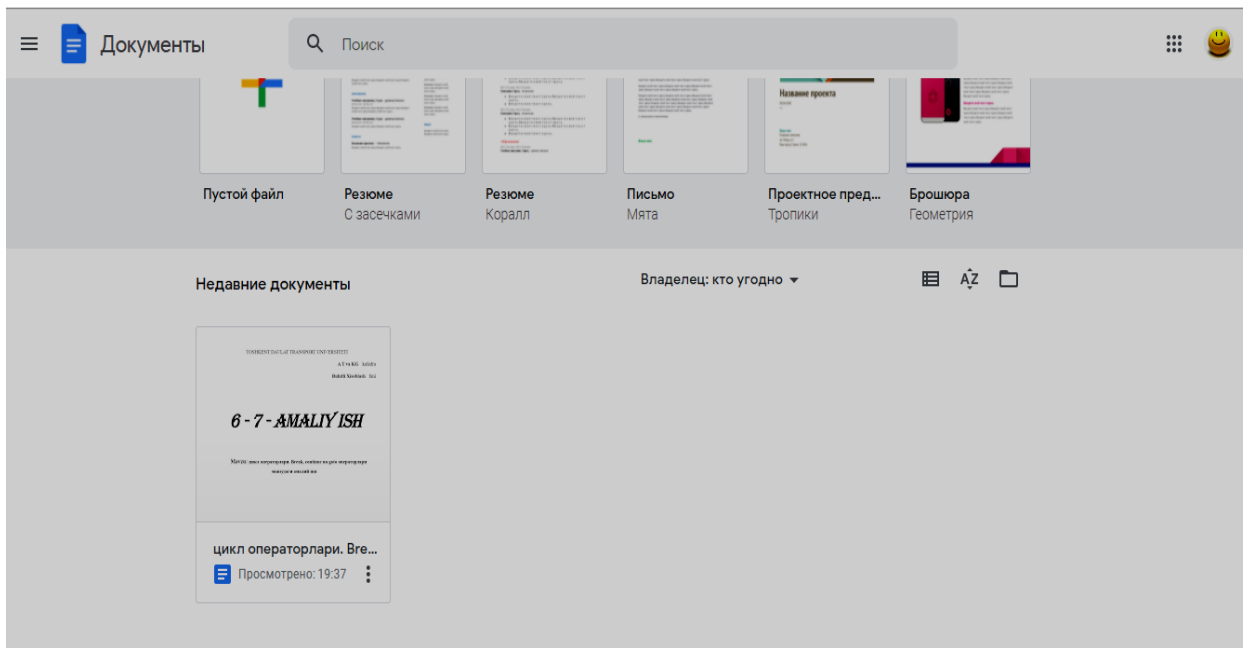


Figure 4. Downloaded file



The downloaded file is indicated by the name of its address. In this way, we can download the data and use it whenever we want. Now let's look at the advantages and disadvantages of using cloud technologies.

- You don't need to buy expensive computers and accessories to store information, because everything is stored in the "cloud";
- Computer performance is improved, because in office work and other fields, cloud technology manages programs remotely, so there is a lot of free space on the computer;
- Yearly maintenance issues are reduced because the number of physical servers is constantly decreasing and the software is constantly updated.
- The cost of purchasing the program is reduced, because the program needs to be purchased only once for the "cloud" and that's it, and sometimes you can even order it for rent.
- Cloud technologies have no limitations on the amount of data stored. In most cases, the volume of such services is millions of gigabytes.
- Programs are automatically updated, so there is no need to follow this as with downloaded programs.
- "Cloud" can be used in any operating system, because access to programs is done through web browsers.
- New cloud technologies give you access to documents at all times, because the main thing is the presence of the Internet.
- Good security and protection against data loss, as the data sent is automatically saved and copies are dumped on backup servers.
- When using cloud technologies, the "cloud" has a number of disadvantages that we should be aware of and consider:
- Access will not be possible when the Internet is not available, and if it is not available, then it will be possible to work only with documents downloaded to the computer. It should be noted that the Internet must be fast and of good quality;
- A cloud service may run slower when transferring large amounts of data than an embedded application.
- Security rarely, but in most cases, Cloudbackup creates backups, so there is no need to worry.
- Many people are embarrassed that you have to pay to provide a series of services, but this is a business project that people need to make money.

In conclusion, we can say that computers and the Internet have entered the educational system to improve and facilitate the process of performing a number of tasks. Cloud technologies in the educational process can be used for several purposes.

REFERENCES USED

1. Емельянова О. А. Применение облачных технологий в образовании Молодой ученый. – 2014. №3–6. 907-909.
2. Романова И. Облачные технологии и их применение // Молодой ученый. 2016.–№17.1.– С.109
3. Raximov S. D., Sodiqov S. S. TEXNIK SOHA MUTAXASSISLARI O ‘QUV FANLARINI O ‘QITISH TAYYORGARLIK JARAYONIDA C++ DASTURIDAN FOYDALANISH



- ZARURATI //INTERNATIONAL CONFERENCE: PROBLEMS AND SCIENTIFIC SOLUTIONS. – 2022. – T. 1. – №. 7. – C. 115-118.
4. Sami o'g'li, S. S. (2022). NOANIQLIK SHAROITIDA EHTIMOLIY XAVF-XATARLARNI BAHOLASH MODELLARI VA BOSQICHLARI.
 5. Kadirova, E. (2021, March). USING OF INFORMATION AND COMMUNICATION TECHNOLOGIES IN INFORMATICS LESSONS. In *E-Conference Globe* (pp. 28-33).
 6. Khodjayeva, Nodira Sharifovna, and Ahrorbek Tolibjon oglu Eshondedayev. "Computer Automated Drawing and Design." *Spanish Journal of Innovation and Integrity* 4 (2022): 117-120.
 7. Xodjayeva, Nodira Sharifovna. "HTML ELEMENTLARI VA ATRIBUTLAR." *BARQARORLIK VA YETAKCHI TADQIQOTLAR ONLAYN ILMIY JURNALI* (2022): 115-119.
 8. Xodjayeva, NS, & Komil o'g'li, GO (2022). KOMPYUTER GRAFIKASI NING INFORMATSION JAMIYATDAGI AHAMIYATI, RO'LI VA O'RN. *ZAMONAVIY TA'LIM: MUAMMO VA YECHIMLARI*, 1, 74-77.
 9. Xodjayeva N. S., Nishanova G. X. The Use of "Five Minute Essay" Technology in Teaching the Subject of Repeat Operators While and While Do //EUROPEAN JOURNAL OF BUSINESS STARTUPS AND OPEN SOCIETY. – 2022. – T. 2. – №. 4. – C. 16-20.
 10. Khodjaeva, Nodira Sharifovna. "METHOD OF TEACHING DIFFERENTIATED ISSUES." (2021).
 11. KHODJAEVA N. S., YUNUSOVA N. S. SPIRITUAL AND MORAL EDUCATION OF YOUTH IN MAKHALLA //THEORETICAL & APPLIED SCIENCE Учредители: Теоретическая и прикладная наука. – 2021. – №. 12. – C. 685-688.
 12. Mamurova, F. T., Abdullayeva, N. K., & Mallaboyev, N. (2019). USING THE «ASSESSMENT» METHOD IN ASSESSING STUDENTS KNOWLEDGE. *Theoretical & Applied Science*, (11), 80-83.
 13. Mamurova, F. I., & Mustafoev, E. (2021, October). Aksonometrik Proyeksiyalarning Asosiy Teoremasi. Dimmetrik Aksonometriya Qurish. In " *ONLINE-CONFERENCES PLATFORM* (pp. 100-103).
 14. Mamurova, F. I., & ugli Mustafayev, E. I. (2021). SHADOWS IN A PERSPECTIVE BUILDING. *Conferencious Online*, 16-18.
 15. Mamurova, F. I., & oglu Akmalov, J. O. (2021). ORGANIZATION OF GEODESIC WORK. STATE GEODESIC NETWORKS. *Conferencious Online*, 21-23.
 16. Mamurova, F. I. (2021, May). ARTIST OF UZBEKISTAN MAKSUD SHEIKHZADE. In *E-Conference Globe* (pp. 176-178).
 17. Mamurova, F. I. (2021). Factors for Forming the Professional Competence of Building Engineers in the Context of Information Education. *EFFLATOUNIA-Multidisciplinary Journal*, 5(2).
 18. Islomovna M. F. et al. DESIGNING THE METHODOICAL SYSTEM OF THE TEACHING PROCESS OF COMPUTER GRAPHICS FOR THE SPECIALTY OF ENGINEER-BUILDER //Journal of Contemporary Issues in Business & Government. – 2021. – T. 27. – №. 4



19. Olimov, S. S., & Mamurova, D. I. (2021). Graphic Information Processing Technology and its Importance. *European Journal of Life Safety and Stability* (2660-9630), 10, 1-4.
20. Olimov, S. S., & Mamurova, D. I. (2022). Information Technology in Education. *Pioneer: Journal of Advanced Research and Scientific Progress*, 1(1), 17-22