Logo, company name

Description automatically generated

INDIVIDUAL ASSIGNMENT.

CT049-3-1- OSCA.

OPERATING SYSTEM AND COMPUTER ARCHITECTURE.

HAND OUT DATE: 5TH WEEK.

HAND IN DATE: 13TH WEEK.

INTAKE CODE: APD1F2209CS(CYB).

MODULE CODE: CT039-3-1- OSCA.

STUDENT NAME: ABDULRAHMAN GAMIL MOHAMMED AHMED.

TP-NUMBER: TP071012.

|  |  |
| --- | --- |
| **Original Topic by Group:** | HP-VICTUS 16. |
| **Perspective Selected:** | Socio-technical issues. |

Table of Contents

[**1- Abstract.** 3](#_Toc124026330)

[**2- Introduction.** 3](#_Toc124026331)

[**3- How has computer technology affected the education field.** 4](#_Toc124026332)

[**4- How has computer technology affected the business field.** 5](#_Toc124026333)

[**5- How has computer technology affected the entertainment industry.** 6](#_Toc124026334)

[**6- How has computer technology impacted the healthcare aspect.** 7](#_Toc124026335)

[**7- How has computer technology impacted the transportation.** 8](#_Toc124026336)

[**8- Conclusion.** 9](#_Toc124026337)

[**9- References.** 10](#_Toc124026338)

**1- Abstract.**

In this paper, we will discuss and determine that computers have had the biggest impact on society when compared to the effects of earlier significant innovations. Computers have affected the world in multiple ways and made life be easier. The major emphasis will be on how computer technology is incorporated into every aspect of daily life. The objective is to both persuade and demonstrate to readers that we simply cannot continue to live as we do now without computers. A very simple and all-encompassing reason for this is that computers provide us with the ability to accomplish practically anything with more ease and less effort, and saving the person's time.

**2- Introduction.**

The world was substantially changed by computers. It helped humans advance toward the future. Computers have made it possible to develop new automobiles and other types of transportation, explore space, provide better entertainment, and find more medical cures, among other things. Computer technology has revolutionized the way we live and work, and has had a number of positive impacts on various aspects of society and individual lives. From increasing productivity and efficiency to enhancing communication and accessibility, computers have made many tasks and activities easier and more convenient. In this report, we will explore some of the key ways in which computer technology has had a positive impact on society and individual lives. We will examine the positive impacts of computer technology on areas such as education, entertainment, healthcare, transportation, and business, as well as on people in general. Through a review of relevant research and examples, we will demonstrate the many ways in which computer technology has made a positive difference in our lives.

**3- How has computer technology affected the education field.**

Computers now play a significant role in schooling. Computer technology has had a positive impact on education by increasing the accessibility, flexibility, and quality of learning. Through the use of cutting-edge of computers and communications technologies, learning may also differ qualitatively (Gill, 2015). Computers have made it easier for students to access course materials, such as readings, lectures, and videos, which can be helpful for self-directed learning and studying at their own pace. (What Is the Effect of Computer Technology on Education? | Synonym, 2020). also helped with communicating and collaborating with the students with their peers and instructors, regardless of location. Applications such as email, messaging, and video conferencing have made it possible for students to work together and share ideas in real time. Students may now more easily access education from any location, at any time, thanks to computer technology. Due to this, education is now more flexible, allowing students to continue their studies when they are on the move or juggling other obligations.

One of the main beneficiaries of the development of computer technology is teachers. It is possible to connect a projector to the computer, which makes it simpler to address both small and large audiences. The speaker or teacher creates his notes utilizing instructional materials that have been soft-recorded (Omogiade Stephen Nosakhare, 2013). And for sure, the computers improved the feedback by providing feedback to the learners on their work in every time and everywhere.

The way students learn in the classroom may alter significantly. richer as students have access to novel and unusual types of information, can manipulate it in never-before-seen ways on computers through graphic displays or closely supervised experiments, and can communicate their findings and conclusions in a variety of media to their teacher, students in the next classroom, or students all over the world. For instance, students can utilize computers to collect and graph local environmental, demographic, and meteorological data in real-time, then use that data to create colour graphs and maps, which they can then compare to maps created by students in other locations. Similar to this, rather than reading about the textbook illustrations of blood flow, students can use computers and technology to see and learn how the blood moves through veins and arteries, observe the process of oxygen entering the bloodstream, and experiment to understand the effects of an increased pulse or cholesterol-filled arteries on blood flow (Gill, 2015).

Education is significantly impacted by computers. Today's students profit greatly from the usage of computers in many tasks and essays. A student could utilize a computerized electronic encyclopedia or the internet to conduct research for an essay. Students have access to computers for all their needs, including typing and searching, instead of going to libraries, and other activities. Teachers also utilize computers. They utilize computers to keep track of grades, set up lesson plans for their students, and let youngsters use them for learning (Gill, 2015).

**4- How has computer technology affected the business field.**

Before the development of computers, all information was maintained on paper. Every firm needs detailed bookkeeping and the writing down or typing of information. This took a lot of time, was ineffective, and was expensive. Paper documents were costly, prone to human error, and simple to lose. The ability to save files digitally makes it feasible for organizations to collect, store, and use data and information about both their internal processes and external settings. Data could be stored even more securely in virtual clouds and became instantaneously accessible with the advent of the Internet. There are several benefits to digital file storage, including simpler data organization and storage, a reduction in human error, the ability to create backup copies, and the capacity to search that data to find the data you need fast. Any particular file may be accessed, shared, and edited as the business needs in a matter of seconds (*Impact of Computers on Business - 1675 Words | Essay Example*, 2022).

Even in the contemporary business world, computers have a significant impact on a number of things, computers are a huge time saver for organizations. Corporate meetings may be held using video conferencing for making informed decisions. without the need for substantial travel, and documents can be amended and revised rather quickly. Businesses can reduce costs by hiring fewer people and producing their own marketing materials (*Relationship between Information Technology and Business | Bizfluent*, 2017). Computers have made it easier for businesses to process and analyze data quickly, communicate and collaborate with others, and access a wide range of online resources. This has increased the efficiency and effectiveness of business operations and that helps businesses to grow and thrive.

Businesses utilize computers to keep track of their accounts, finances, or the goods they need. You might have noticed that office workers regularly utilize laptops, which are portable Computers that can be used at the workstation. People frequently use graphs and pie charts in meetings to communicate information to other entrepreneurs. The majority of these graphs were produced by computers. Companies and other organizations make extensive use of computers. Given how swiftly new technologies are developing in today's business climate, organizations need to be ready for these changes and capable of responding to them. Computer technology is quickly rising to prominence as one of the most significant resources in modern technology, and it is doing so by playing a major role in the modern trade. The internet will continue to develop new technologies as it grows, just like previous technologies do (Gill, 2015).

Computer use increases productivity at work. Employee productivity has increased. Using spreadsheet computations, high-speed data transfers, and databases for storing and accessing enormous volumes of data, computers enable workers to concentrate more on tasks that bring value (*Positive Effects of Computers in Business | Bizfluent*, 2017).

The Internet and computers are responsible for the creation of the growth of electronic commerce, sometimes referred to as E-commerce. Today, many businesses rely largely on e-commerce to run their day-to-day operations (Gill, 2015). Because of computer technology, business processes are now more effective, efficient, and competitive.

**5- How has computer technology affected the entertainment industry.**

Computers have made it easier for people to access and consume a wide range of entertainment content, such as movies, music, games, and television shows. This has increased the accessibility of entertainment and has made it possible for people to enjoy their favorite content from anywhere, at any time. Most people like science fiction or action movies, especially ones with amazing special effects. Actually, a large portion of the visuals were produced by computers. Computer graphics are used in the bulk of modern films to give items a more realistic yet surreal aspect. The most popular themes for computer graphics are spacecraft, aliens, monsters, and spectacular effects. In movies like Jurassic Park, Wing Commander, and Starship Troopers, computers were used to enhance the realism and intrigue of the visuals. The whole production of popular films like Toy Story and A Bug's Life was carried out by computers (Gill, 2015).

The use of computers and information technology has allowed the film industry to lower production costs. They also speed up the production of movies. An animator used to have to hand-draw every frame of a cartoon movie, which took years to produce. However, the process is rather simple when employing the digital animation tools available today. Nowadays, computers are used in practically every aspect of filmmaking, including composing screenplays, producing special effects, editing, adding sound effects, and so on (Sreejith Hrishikesan, 2020).

Not only computer animation and graphics are used in films. For the most recent gaming platforms, like the Play Station, the best games have ever been produced. To make the best games nowadays, computer animation and graphics are employed. There are also many video games. New 3D games were produced using very amazing computer graphics (Gill, 2015). The variety of skills children get from playing these games can provide them with the foundation for computer literacy and prepare them for careers in science and technology, professions where manipulating images on a screen is employed in an increasing number of tasks (Subrahmanyam et al., 2000).

For musicians, computers have made life easier to create and produce music, through digital audio workstations (DAWs) and music production software. This has increased the creativity and diversity of music and has made it possible for musicians to experiment with new sounds and techniques.

That is how this technology has changed contemporary entertainment. Now, people have the ability to access and consume entertainment content on their own terms, as they can be used to stream content online or to download it for offline viewing. This has increased the convenience of entertainment and has made it easier for people to fit it into their busy schedules (Gill, 2015).

**6- How has computer technology impacted the healthcare aspect.**

Computers have had a big impact on the medical field. The usage of computers helped hospitals tremendously. In pharmacies, pharmacists utilize computers to record the medication that should be given to a patient and the proper amount. a number of the computers at the hospital. utilized to keep track of patient status information. Computers also keep track of the equipment's location and state. Researchers who are looking for cures for diseases like cancer and STDs must use computers. Without the use of computers, many ailments' cures might not have been found. Computers have considerably assisted the medical industry by keeping track of our health, and we are grateful for that (Gill, 2015). Computers have made it easier for healthcare providers to access and share patient information, through electronic health records (EHRs) and other healthcare information systems. This has improved the efficiency and effectiveness of healthcare delivery and has made it easier for healthcare providers to coordinate care and make informed decisions.

Thanks to computer technology, medical accountants can swiftly collect vast amounts of data. With the use of data collection, healthcare professionals may better understand and learn about contemporary techniques and trends. To find danger indicators, predict possible epidemics, and do analytics, this data may be analyzed. Having access to big data also helps doctors propose appropriate preventative measures more successfully and reduce death rates (Joseph, 2020). By providing information and resources on a variety of health subjects through websites and applications, computers have made it simpler for healthcare professionals to tell consumers about their health. This has improved knowledge of health concerns and made it simpler for individuals to participate actively in their own treatment.

Computers have simplified the process for healthcare practitioners to handle and analyze large amounts of data, which may be helpful for patient diagnosis and treatment. For instance, employing machine learning algorithms to identify patterns and trends in patient data may help doctors identify potential risks and provide more accurate diagnoses (Price, 2019). Computers have made it more convenient for public health organizations to track and analyze health trends using data analytics and monitoring systems. As a result, public health programmes are more effective, and it is easier for public health organizations to deal with epidemics and other situations involving the public's health.

**7- How has computer technology impacted the transportation.**

The success of the transportation industry depends on computer vision, or visual transport tracking, mostly because of its various uses in areas like self-driving cars, traffic management, parking management, road condition monitoring, and more. For instance, according to a CDC study, 1.35 million people globally pass away on roadways each year. In fact, injuries from collisions are the ninth most prevalent cause of death worldwide. Computer vision is driving the development of intelligent transportation solutions across all markets. Computer vision is crucial to the transportation industry in the following areas:

1-Self-Driving Automobiles: As companies work to improve the capacity, reliability, and safety of self-driving cars, computer vision is at the forefront of this transition. The development of self-driving cars has been greatly aided by computer vision, which helps to recognize and categorize both fixed and moving objects.

2-Traffic Management: The advancement of computer vision has made it possible to analyze traffic flows and regulate traffic flow effectively. Because computer vision can give accurate information like traffic density, highway traffic count, etc., it improves traffic management and boosts road safety (Chabra, 2022).

**8- Conclusion.**

Today, almost everything you come into contact with is powered by or produced by computers. The bulk of medical equipment, traffic lights, autos, airplanes, and spacecraft were all designed and launched using computers. The majority of jobs today demand computer proficiency. These so-called "mechanical minds" have a profound impact on our civilization. Computer technology has had a number of positive impacts on various aspects of society and individual life. Computers have greatly accelerated our progress. In the domains of commerce, entertainment, education, transportation, traffic management, and medicine, computers are used in a variety of ways. They help businesses and the entertainment industry make money. Whether you're watching the newest movies, playing video games, or doing research for an assignment, computers have an effect on everyone nowadays.

Computers have had a significant impact on the globe, and this change is still taking place. Each person was impacted by this incredible idea. We would not be where we are now without computers, even if you think differently about it somewhat. It would be challenging without the computer technology we have today on hand.

Word count (2511).

**9- References.**

* Gill, S. (2015). Impacts of Computers on Today’s Society. *International Journal of Core Engineering & Management (IJCEM)*, *2*(1), 9510. http://ijcem.in/wp-content/uploads/2015/05/Impacts\_of\_Computers\_on\_Todays\_Society.pdf

‌

* Subrahmanyam, K., Kraut, R. E., Greenfield, P. M., & Gross, Elisheva F. (2000). The Impact of Home Computer Use on Children’s Activities and Development. *The Future of Children*, *10*(2), 123–144. https://doi.org/10.2307/1602692

‌

* *Positive Effects of Computers in Business | Bizfluent*. (2017). Bizfluent. https://bizfluent.com/info-7847581-positive-effects-computers-business.html

‌

* Omogiade Stephen Nosakhare. (2013, June 12). *Impact of Computer Technology on Education*. HubPages; HubPages. https://discover.hubpages.com/technology/Impact-of-Computer-Technology-on-Education

‌

* *What Is the Effect of Computer Technology in Education? | Synonym*. (2020). Synonym.com. https://classroom.synonym.com/effect-computer-technology-education-6607382.html

‌

* *Relationship Between Information Technology and Business | Bizfluent*. (2017). Bizfluent. https://bizfluent.com/facts-7353469-relationship-between-information-technology-business.html

‌

* *Impact of Computers on Business - 1675 Words | Essay Example*. (2022). Free Essays. https://ivypanda.com/essays/impact-of-computers-on-business/

‌

* Price, S. (2019, September 27). *Computer vision can improve accuracy of medical diagnostics*. Health Europa. https://www.healtheuropa.com/computer-vision-accuracy-of-diagnostics/93650/

‌

* Joseph, T. (2020, October 6). *7 Major Impacts of Technology in Healthcare - Fingent Technology*. Fingent Technology. https://www.fingent.com/blog/7-major-impacts-of-technology-in-healthcare/

‌

* Sreejith Hrishikesan. (2020, August 8). *Role of Computers in Entertainment*. Electronics and Communications; Blogger. https://www.electronicsandcommunications.com/2020/08/role-of-computers-in-entertainment.html

‌

* Chabra, P. (2022, April 29). *Computer Vision in Transportation: What is its impact?* DataToBiz. https://www.datatobiz.com/blog/computer-vision-in-transportation/

‌