with passwords – they did not require passwords of sufficient complexity and length. According to the researchers, most devices, cloud services and mobile applications use too simple passwords, like "1234" or "123456".

What is the danger of hacking the Internet of things? First of all, the presence of a large number of unprotected devices of the Internet of things, even with low computational power, makes them an easy prey for intruders. By exploiting vulnerabilities or simply taking advantage of the weakness of embedded security systems, hackers create large-scale botnets and use them for malicious activity, for example, to organize DDoS attacks [4].

Infected networks consisting of millions of hacked devices become a real menacing force, not only for business, but also for private users. If a device connects to the home network, control over which the attacker has obtained, most likely, this device not just supports DDoS attacks, but also collects a huge amount of information about its owner: steals personal information, passwords and bank data. Also, the attacker will be able to intercept the transmitted traffic, that is, every user's web activity will be in plain sight.

Therefore, here are some tips for those who are thinking about purchasing smart technology or already own such a device:

- change default passwords immediately;
- install firmware updates timely;
- protect your routers by changing your password to a more complex one;
- purchase a smart-device only from reputable manufacturers who have experience in data and network security.

Modern technologies are in many ways ahead of our own perception and understanding of digital culture. Users still do not have the habit of protecting personal data not only on phones and computers, but also on other devices connected to the network. However, in the future, with the growing popularity and usability of Internet of Things, new security problems will arise that will need to be addressed simultaneously with developing modern infrastructure and device protection standards.

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HOW TO MAKE MONEY WHILE BEING A STUDENT IN UKRAINE

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Almost, every student faces the problem of lack of funds, even if he receives a scholarship, because its size is usually not sufficient to meet most needs. Especially, if the university, where the student is studying, is in another settlement, they have to live in a social behavior, buy food

themselves, pay for the necessary services - all of this is a serious problem for non-resident students. If you pay attention to those who are study at hometown and, most likely, live with their parents, then they also have a problem of lack of money and the need to receive at least a small income. Also, there are situations where parents themselves give a nudge to a son or daughter to go to work because they believe they are already adults and have to fend for them.

The main purpose of the article is to solve the problem by identifying and familiarizing with perspective activities, where students can earn money, and possible places of work that will not interfere with studying and take away all the free time.

According to the statistics of the State Statistics Service of Ukraine, the number of employed youth under the age of 24 in January-June 2018 is 27.5% of the total population of the corresponding age. Also, there are informally employed in the same period - 137.2 thousand people (urban settlements) [1]. If we take into account that not all of these people are university students, then the total number will be even lower. It shows us that young people under 24 years old who working formally, it is a small amount, but that even part-time work is very complex, requiring a lot of time, so it does not remain time for study. Considering the average wage for students in September, according to the site with the requests of employers ua.trud.com, is 6500 UAH. Most vacancies for students are located in Kyiv, Kharkiv and Zhytomyr regions. The highest salary level is offered by the Kyiv region [2].

In our time opportunities for students is much more than before. First, let's look at the most widespread jobs offered by employers. Of course, shopping malls, especially supermarkets, are interested in students because they work part-time, they pay a small salary, but the working conditions are rather complicated, and the senior management is grateful. Therefore, most offers come from supermarkets, namely, cashiers, sales consultants, and loaders. But the best option for a student can work at home with a flexible schedule, that is, work on a computer. You can manage your time yourself, work when it's convenient for you, and the level of wage also depends on you and the amount of your work which you have done. The salary at such jobs is slightly lower, but the working conditions are also lighter. With regard to the work of waiters and bartenders, the difficulty is that it is usually a night job that needs a lot of effort, because sometimes it will never even be able to sleep. This is the most difficult kind of work that is conducted by students through the prestige of the institution in which the job is offered, or generous tip customers. But they forget about a healthy sleep and a good state of health.

There are plenty of activities that you can do and earn money not only for students, but even for senior students, housewives, and people who are eager to receive additional income. We focus on a few simple ways of earning money. Having a hobby that you know well can make money and enjoy the process. For example, cooking - preparing for the order of some products, fine arts - creating portraits, playing musical instruments - providing paid training lessons, pottery art - making designer utensils. Being a student, you have an opportunity to promote and advertise your "small business" through friends, the Internet. Information about the university is spreading rather quickly, and if you create a site with a demonstration of your work, then it will attract attention not only to other students, but also to people interested in products. That is, with the help of your favorite hobby and simple marketing influences, the realization of which with the increasing information of society through the open Internet space, social networks are quite simple, you can get the income. Many students choose a different path of forgery - tutoring. But this activity needs a high level of own responsibility, which complicates its implementation. Tutoring means working with schoolchildren to prepare for the OUT, STA, raising the level of knowledge on any subject. Typically, this type of jobs is provided by students of pedagogical institutions, who, besides earnings, will have an experience of working with the younger generation.

Thus, there are a lot of ways of earning money for students with a properly distributed time. For their realization, the basic thing is a desire. Even with a hobby, you can make a profitable business and adapt your knowledge to the benefit. Not all of the jobs which are offered by employers are concentrated on cashiers and waiters. The labor market for students is fairly broad; you only need to look for what's right for you.

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SMART FOOD

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In our modern world, people try to think of many ways to make their lives easier. The appearance of the first devices similar to 3D printers dates back to the early 1980s, when Dr. Hideo Kodama in Japan developed a rapid prototyping system using photopolymers. The principle of operation of the devices was the same as in modern 3D printers - the printed object was created in layers in accordance with the model. Such a printer can print whatever you want. With the help of 3D printing technology, parts for various mechanisms, bridges and even entire houses are being created. And as it turned out, the 3-D printer can even print food [2].

South Korean scientists from the Elwha Women's University have developed a 3D printer that turns powdered ingredients into complete foods with a given nutrient content and predetermined taste properties. Essential nutrients (for example, carbohydrates and proteins) are ground to powder at -100 ° C. Then the resulting raw material is heated and turns into a porous film. After that, a three-dimensional product is created from several layers of films. The uniqueness of the development lies in the fact that, by combining films with different content of proteins, carbohydrates, microelements and vitamins, you can get a product rich in nutrients in the required proportion. In addition, you can experiment with the taste palette of the product, combining, for example, powdered pear and apple. "We believe that one day anyone will be able to purchase cartridges containing powdered analogs of various ingredients that can be" assembled "together using three-dimensional printing and prepare a" dish "in accordance with individual needs and preferences," said the author University Elwha Jin-Kym Lee [1].

The new technology, according to the developers, can greatly reduce the financial costs of transportation and storage of products, as well as reduce the amount of food waste. According to scientists, their development will be able to satisfy the desires of a growing population on earth. According to the Food and Agriculture Organization of the United Nations, by 2050, the world's population will increase from the current 7.6 billion people to 9.8 billion, and in 2100 it will reach 11.2 billion [2].

One of these printers operates in Food Ink, a 3D kitchen restaurant that was opened in London in 2016. In this institution, everything - from food to furniture and cutlery - was created on a 3D printer. The restaurant offers visitors a menu of nine dishes. The three-dimensional printer used here operates on the principle of ordinary; the role of ink is played by the paste of edible ingredients, such as curd cheese or chocolate mousse.

According to nutritionists researching, the development of Korean scientists will help people stick to a balanced diet. But in complex developments a certain amount of nutrients is provided, a person will not be able to eat so long. This 3D food can be balanced and useful, but can quickly get bored. It is impossible to engage in self-treatment with such a printer, it is better to go to a nutritionist so that he compiles you the correct diet.

On the one hand, this development is very useful, as it will make life easier for many people, you will not have to spend time preparing any product or drink, but will the printed products be as useful as the real ones? Many people simply do not understand this development, as they are used to