**III Make opposites of the following words by adding the appropriate prefix (5)**1 correct …………incorrect…………………………………  
2 encrypt …………decrypt…………………………………  
3 adequate ……………inadequate………………………………  
4 economical …………uneconomical…………  
5 sufficient ……………insufficient …………………

**VI Rewrite the sentences by putting verbs in the passive where appropriate (10).**Neural network look at the rules of using data. As a result, the software continually analyses value and compares it to the other factors, and it compares these factors repeatedly until it finds patterns. People know these patterns as rules. The software than looks for other patterns based on these rules or sends out an alarm when it hits a bigger value. Clustering divides data into groups based on similar features or limited data ranges.

Neural network looks at the rules of using data. As a result, value is being continually analyzed and compared to the other factors until patterns are found. These patterns are known as rules. The software than looks for other patterns based on these rules or sends out an alarm when it hits a bigger value. Clustering divides data into groups based on similar features or limited data ranges.

**VII Rewrite these sentences in the passive (3).**1 You have to explain the procedure to me.  
…The procedure has to been explained to me by you……………………………………………………………………………….   
2 I have already given a set of diagrams.  
…A set of diagrams have already been given by me.……………………………………………………………………………  
3 Someone will demonstrate the game to the children.  
…The game will be demonstrated to the children by someone.……………………………………….

**XI Complete the conditional sentences (4).**1. If you spilled coffee on your keyboard you ……would damage…………….. (damage) it.  
2. You ……will find……………………. (find) Start button if you bring your cursor down to the very bottom.  
3. If you …………don’t use……… (not use) a better search engine you won’t find more relevant results.  
4. If there ………were…………………….. (be) no other folders there you wouldn’t have a little box here.

**XII Translate the sentences into Englich (5).**1. Danas racunari u sistemima zastite rezultiraju sigurnijim okruzenjem, kod racunara u autima poboljsavaju energetsku efikasnost.

Today, computers in security systems result in safer environments, computers in cars improve energy efficiency.  
2. Potreba da se razvije sistem obnovljive energije se smatra futuristickim tehnoloskim izazovima baziranim na konceptima koji postoje odavno.

The need to develop renewable energy system considers as futuristic technological challenge based on concepts that have long been in existence  
3. Djelovanje vjetra na solarni stub moze takodje da proizvede silu uvrtanja.

The action of wind on a solar pole can also produce a twisting force.

4. Dramaticno raspadanje motora aviona tokom leta je izazvala lose napravljena cijev za gorivo koja nije odgovarala standardima.

The dramatic disintegration of jet engine during a flight was triggered by a poorly oil pipe which did not be as in standard

**VII Complete the conditional sentences (4)**1. If you added more memory you ……would speed up…………………….. (speed up) the computer.  
2. If he ……forgets………………. (forget) to save date he will lose them all.  
3. If you ……installed…………………….. (install) a modem you would be able to connect to a telephone line.  
4. If she ……doesn’t send………………….(not send) us data on time we will lose to our competitors.

**II Complete the passage using either active or passive forms of the verb (10).**Whenever a disaster …happens…………… (happen) somewhere in the world, reporters and photographers …………are sent…….(send) there to interview people and take photos. The news reports ………can be sent……….(can/send) by e-mail or over the phone and rolls of film …are rushed back…………….(rush back) to the office to be developed. The computer ………prints…………….. (print) out the page of news onto a piece of clean film which ……is laid………………….. (lay) on a light-sensitive plate and ……………exposed….. (expose) to a brief flash of light. A plate ……is made……………… (make) for each page of the newspaper, ………wrapped……………….(wrap) around a roller on the printing press and ……coated………………. (coat) with ink.

**III Rewrite these sentences in the passive (3).**1. You should switch off your mobile phone during the flight.  
……Your mobile phone should be switched off during the flight.………………………………………………………….  
2. The board will discuss the proposal.  
… The proposal will be discussed by the board………………………………………………….  
3. They have built a new extension.  
…A new extension has been built by them.………………………………….

**1 Complete the conditional sentences in the situations using the words in brackets.**

1 A friend needs to call his partners to conference. (*offer to help*)

If you need help I will call your partners to conference.

(help / call)

2 A colleague can not make up his mind about a job offer. (*advice*)

If I were you, I would take the offer.

(be you / take the offer)

3 I missed the plane and was late for the meeting. (*regret*)

If I hadn't missed the plane, I wouldn't have been late.

(not miss / not be late)

**2 Infinitives or gerund**

1. Our CEO suggested …opening… (open) a new office.
2. The decided ………to make…… (make) the business known in other markets.
3. The company began ………building……… (build) new facilities.
4. They agreed …………to start…….. (start) negotiations on Monday.
5. It is not worth ………buying………. (buy) expensive equipment.
6. He let me ……to check……… (check) his computer.
7. We look forward ……… working…………. (work) together.

**3 Make opposites of the following words using one of the prefix.**

1 correct - incorrect

2 detected - undetecte

3 balance - imbalance

4 proportionate - disproportionate

5 compress - decompress

6 effective - ineffective

7 consistent - inconsistent

**4 Complete the text below about filming of a television ad using one of the article.**

Ronaldinho smashed a window in the centuries-old cathedral of Santiago de Compostela while filming an advert for television today. Luckily for the Barcelona star, the window was only a small, modern addition to Spain's famous cathedral in Galicia. The Brazilian blundered after being asked to try a scissor-kick beneath. 'I asked Ronaldinho to hit the ball as hard as he could and he had the bad luck to hit the window'.

**5 Re-write the first sentence in reported speech with the words given.**

1 ‘We haven’t watched that show before.’

He said that they hadn't watched that show before.

2 ‘I don’t want to diversify in the immediate future’.

He said that he didn't want to diversify in the immediate future.

3 ‘We are not going to move too fast.’

He said that they were not going to move too fast.

4 ‘We will not compromise with them and change our plans.’

The Minister said that they would not compromise with them and change their plans.

5 ‘If you don’t give us a discount we won’t buy your equipment.’

They said that if we didn't give them a discount they wouldn't buy our equipment.

**6 Re-write these sentences into the passive.**

1 We have made the decision.

The decision has been made by us.

2 He is preparing the documents now.

The documents are being prepared now by him.

3 Some experts placed too much hope on middle classes.

Too much hope was placed on middle classes by some experts.

4 You must return all tenders and supporting documents by 31 March.

All tenders and supporting documents must be returned by 31 March.

**7 Re-write the following text using the passive whenever possible.**

People use SMTP to transfer messages between one mail server and another. Email programs on PCs also use it to send mail to the server. SMTP is very straightforward, providing only facilities to deliver massages to one or more recipients in batch mode. Once programs have delivered a message, they can’t recall it or cancel. They also delete it from the sending server once they have delivered it. SMTP uses ‘push’ operation, meaning that sending server initiates connection rather than the receiver.

SMPT is used to transfer messages between one mail server and another (by people). It is also used to send mail to the server by email programs on PCs. SMTP is very straightforward, providing only facilities to deliver massages to one or more recipients in batch mode. Once a message has been delivered by programs, it can't be recalled or canceled by them. Also, it is deleted from the sending server once it has been delivered by them. 'Push' operation is used by SMPT, meaning that sending server initiates connection rather than the receiver.

**8 Write suitable suffix.**

1 From kitchen magnets to computer disks,.....magnetism.... (magnet) plays a central role in the technology of everyday life.

2 A computer …technician……. (technology) installs, troubleshoots and upgrades hardware and software.

3 Most sites for downloading papers are nowadays ……accessible……. (access).

4 Blu-Ray Disc is a new ……recordable….. (record) optical disc format developed by nine electronic ……manufacturers….. (manufacture).

**9 Translate the following sentences into English.**

1 Obrnuti inženjering softvera može da pomogne da se poboljša razumijevanje izvornog koda za razvoj, održavanje i unaprijeđenje softvera, što pomaže kod određivanja i popravljanja grešaka softvera ili ranjivosti.

2 Da bi prilagodio ovakvo ponašanje za svjetlost, Ajnštajnova teorija je predviđala da će se vrijeme i prostor morati istezati ili skupljati dok neko putuje sve većom brzinom.

3 Manja emisija, niže cijene goriva i smanjenja zagađenosti su prednosti koje upotreba atlernativnog goriva može da ponudi da ublaži problem koje izaziva upotreba fosilnog goriva.

1) Software reverse engineering can help to improve understanding the source code for development, maintenance and advancement of the software, which helps with finding and fixing code bugs or vulnerabilities.

2) To accommodate this behavior for light, Einstein's theory was predicting that time and space would have to stretch and shrink while somebody is travelling with increasing velocity.

3) Smaller emission, lower fuel prices and pollution reduces are advantages that usage of alternative fuels can offer to mitigate problem which fossil fuel usage causes.

**10 What are some alternative ways of producing electricity?**

Some alternative ways of producing electricity are:

-bladeless wind turbines

-solar energy

-nuclear energy

-wave energy

-biomass energy

-hydrogen gas ...

I Complete the conditional sentences in the situations using the word in brackets(5).  
1 A colleague has a lot of candidates to interview.(Offer to help)  
if you need help I will interview candidates……………………………………………………………………. (help/interview)  
2 A colleague has a new computer but can’t get It to work.(advice)  
If I were you I would call help line./………………………………………………………………..(be you/call help line)  
3 A member of your team was ill while they were at work. (regret)  
If I had known I would have sent him home……..……………………………………………………..(know / send home)  
4 A colleague has lost her mobile phone in the office. (advice)  
If you called I would find your mobile phone…..………………………………………………….(call / find)  
5 I worked too hard and burned out. (regret)  
If I had worked less I wouldn’t have burned out………………………………………….(less/burned)

## II Complete these definitions with correct participle of the verb given in the brackets(5).

1 *Telnet* is an Internet service…enabling…(enable) users to log on to their computers at a distance.  
2 *FTP* is an Internet service…used…..(use) to download files from server.  
3 *IRC* is an Internet service…allowing….(allow) users to chat in real time.  
4 The *Web* is an Internet service …making ….(make) webpages available to millions of users worldwide.  
5 The *Internet* if huge number of computers…linked… (link) together.

## III Complete the sentences using the correct form of the word in brackets(6).

1 Most library databases are …accessible... via the Internet. (Access)  
2 Aircraft flight …simulation…. is used to train pilots. (Simulate)  
3 This book will show you how to …computerize… your small business. (Computer)  
4 From kitchen magnets to computer disks, …magnetism… plays a central role in the technology of everyday life. (Magnet)  
5 I have bought a new, …programmable… keyboard. (Program)  
6 She is a computer …consultant… and specializes in IT strategies. (Consult)

## IV Re-write the first sentence in reported speech with the words given (5)

1 ‘We haven’t watched that show before.’  
He said …that they hadn’t watched that show before.  
2 ‘I don’t want to diversify in the immediate future.’  
He said that he didn’t want to diversify in the immediate future.

3 ‘We are not going to move too fast.’  
He said …that they were not going to move too fast.  
4 ‘She may be in the office.’  
He said …that she might be in the office.  
5 ‘We will not compromise with terrorists.’  
The Minister said …that they would not compromise with terrorists.

## V Use the word given in brackets to form a word that fits into the space(3).

1 None of his … inventions …………….. ever worked. (invent)   
2 The race was very …competitive….. but he eventually won. (compete)  
3 …Consummation….. of electrical goods has increased this year. (consume)

## VI Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Paul Bennett was killed after he…had climbed (climb) into a giant industrial tumble dryer to free a piece of cloth trapped inside. The machine…started…(start) accidentally and he was spun to death. It…became……(become) evident that his employer…had not given…(not give) him proper training and a jury…decided…(decide) that there…had been (nije priznala,ali tako pise u knjizi)……(be) an ‘unlawful killing’ – it was satisfied beyond reasonable doubt that Mr. Bennett…had died…(die) as a result of manslaughter.

## VII Write the verbs in brackets in the correct form (4).

1 While he…was writing (write) the email, we…(nije priznala have had)…(have) discussion in another office.  
2 They are coming after they…have had… (have) dinner.  
3 People started complaining about the product after we…had launched…(launch) it.  
4 I will send the invitations as soon as I…receive…(receive) the addresses.

## VIII Explain how each of there actions happen using –ing clause(3).

1 MP3 reduces the information stored …by strippin out sounds most people can’t hear.  
2 You can ‘rip’ the audio information from a CD…by using ripper……………………………….  
3 You can access many free and legal music files for downloading …by using Internet.

## IX Link each pair of actions using a time clause(3).

1 a) With POP3, email is stored on the server.  
 b) You check your email account.  
……UNTIL u sredini………………………………………………………………………………………….  
2 a) You have clicked on a hyperlink.  
 b) You have to wait for the webpage to be copied to your computer.   
………ONCE na pocetku……………………………………………………………………………………………….  
3 a) You listen to the first part of a streamed audio file.  
 b) The next part is downloading.  
………AS na pocetku……………………………………………………………………………………………………………

## X Translate the following sentences into Serbian (3).

1 In host-based mail system SMTP is the only protocol the server uses where received messages are stored locally and retrieved from the local file system by mail program.  
2 Most advance home networks are likely to have a client/server structure with low-cost terminals, or ‘thin’ clients, connected to a central server which maintains the system’s storage capacity.  
3 The purpose of the system is to help smooth power demand for the benefit of electric utilities.

U host-based mail sistemu, SMTP je jedini protokol koji koristi server gdje su primljene poruke skladištene lokalno i preuzete sa lokalnog fajl sistema od strane mail programa.

Najnaprednije kućne mreže vjerovatno imaju klijent/server strukturu sa terminalima niske cijene, ili ‘slabim’ klijentima, povezanih na centralni server koji odrzavaju kapacitet sistema.

Сврха система је да помогне у изглађивању потрошње енергије у корист електричних услуга.

## XI Translate the following sentences in English (3).

1 Dinamicki kontrolni sistem potraznje se moze ugraditi u elektricne aparate koji rade po principu radnih ciklusa.  
2 Potraznja za elektricnom energijom varira I elektricne central moraju da se izbore sa vrhuncem potraznje.  
3 Modem je uredjaj koji prebacuje digitalne signale u analogne I obratno da bi omogucio racunaru da prenosi I prima podatke.

1 The dynamic demand control system can be installed in electrical appliances that work on the principle of operating cycles.

2 Demand for electricity varies and power plants have to cope with top demands.

3 The modem is edited to convert the digital signal to analog and vice versa to allow the computer to transmit both primary data.

Grupa B

## I Complete the conditional sentences in the situations using the word in brackets(5).

1 A colleague needs some figures urgently for a sales report. (offer to help)  
If you…tell me you need figures I will send them immediately …………….(tell me/ send immediately)  
2 Your friend failed his driving test because he drove too fast. (criticize)   
If you…hadn’t driven too fast you wouldn’t have failed ……………………………………………...(drive/fail)  
3 A member of your team is late for work again. (threat)  
If you…are late again I will report you…………………………………..………………………….(be late/report)  
4 A colleague wonders whether to put the presentation on a CD or not.(advice)  
If I…were you I would put the presentation on a CD…………………………………………….(be you/put)  
5 I didn’t set the alarm so I overslept. (regret)  
If I……had set the alarm I wouldn’t have overslept……………….(set/oversleep)

## II Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Neil said that Roy, who used to enjoy riding with him on his bike,…followed..(follow) him as he set off. He told the child to go back to his mother, and…rode..(ride) away. Meanwhile, Roy’s mother thought that Roy…had gone..(go) with Neil; Neil believed Roy…had stayed..(stay) behind. It…was..(be) only some hours later, when Neil…returned..(return), that they realized Roy…had vanished..(vanish).

## III Complete the sentences using the correct form of the word in brackets(6).

1 The combination of… Electronics. and new textile materials has made it possible to create musical jackets that can read our hear rate. (Electron)  
2 An…erasable.. optical disc allows data to be deleted and new data to be recorded. (Erase)  
3 A video…digitizer.. is used to convert analogue video into digital video files. (Digit)  
4 She is a computer…consultant.. and specializes in e-commerce. (Consult)  
5 Is this format…convertible..? (Convert)  
6 The two major…manufacturers.. of processor chips are Intel and AMD. (Manufacture)

## IV Complete these definitions with correct participle of the verb given in the brackets(5).

1 A *LAN* is usually a network…connecting.(connect) computers over a small distance.  
2 *CMC* is communication…using…….(use) computers.   
3 A *search engine* is a Internet search tool…consisting of..(consist of) databases if information that can be searched using keywords  
4 *Subject directories* are hierarchically organized indexes… categorized (categorize) into subject areas.  
5 A *gateway* is a collection of hardware and software…enabling..(enable) a network to communicate with a dissimilar network.

## V Re-write the first sentence in reported speech with the words given (5).

1 ‘Charles has just phoned and he wants to see you.’  
She said…that Charles had just phoned and that he wanded to see you……  
2 ‘If we don’t do something quickly we’ll lose out to our competitors.‘  
He said…that if they didn’t do something quickly they would lose out to their competitors…  
3 ‘You can leave your suitcases in the left-luggage lockers over there.’  
She said…that I could leave my sui..……………………………………………………………………………………………………..  
4 ‘Our firm has a few old-fashioned computers and we don’t know what to do with them.’  
He said…that their firm had a few old-fashioned computers and that they didn’t know what………

5 ‘My salary will not keep pace with of living.’  
She said……that her salary would not keep pace with of living ………………………

## VI Use the word given in brackets to form a word that fits into the space(3).

1 There was a small…improvement………. in the IT sector this year. (improve)  
2 They closed the building because it was…(nije safer, mozda je the safest)………………. . (safe)  
3 They will make their…decision…….tomorrow. (decide)

## VII Explain how each of there actions happen using –ing clause(3).

1 You can alter the look of your MP3 player…by using skin program………………………………….  
2 You can convert a WAV file to MP3 format…by using ripper………………………….  
3 You can control how the music sounds…by changing volumen, bass etc..

## VIII Link each pair of actions using a time clause(3).

1 a) The graphics can be displayed gradually.  
 b) The webpage is downloaded.  
………………AS u sredini……………………………………………………………………………………………………  
2 a) You receive an email message.  
 b) You can forward it to another address.  
………………WHEN na pocetku……………………………………………………………………………………………………  
3 a) You can bookmark a webpage to make it easier to find in the future.  
 b) You find a webpage you like.  
……………WHEN u sredini…………………………………………………………………………………………………………

## IX Write the verbs in brackets in the correct form (4).

1 We’ll meet again next week after you… change…..(change) your position.  
2 While he…was waiting…………..(wait) to be called they gave the offer to someone else.  
3 As long as your company…offers…………..(offer) good terms, we will do business with you.  
4 I…had already moved…………..(already/move) to Paris before they offered me the job there.

## X Translate the following sentences into Serbian (3).

1 Special isolation adapters can be fitted to allow existing mains lines to be used instead of twisted-par cabling.  
2 SMTP is very straightforward, providing only facilities to deliver messages to one or more recipients in batch mode.  
3 In order to maintain continuous supply of power we have to make continual checks, and adjust the power load we generate.

Posebni izolacioni adapteri se mogu postaviti tako da omogućavaju da se koriste postojeće mrežne linije umesto kablova sa uparenim paricama.  
  
SMTP je vrlo jednostavan, pružajući samo objekte za isporuku poruke jednom ili više primalaca u batch načinu rada.  
  
U cilju održavanja kontinuiranog snabdevanja energije moramo da vršimo stalne provere, i prilagoditi rad napajanja koji smo generisali.

## XI Translate the following sentences in English (3).

1 Veoma je tesko sacuvati elektricnu energiju u velikim kolicinama pa koristimo inovativnu tehniku da bismo pohranili elektricnu energiju tokom perioda slabe potraznje.  
2 Dinamicki sistem iskoristava cinjenicu da aparati sa radnim ciklusom ne zahtijevaju stalno napajanje.  
3 Ruter je poseban racunar koji usmjerava poruke kada je nekoliko mreza povezano.

1 It is very difficult to store electricity in large quantities, so we use an innovative technique to store electricity during periods of low demand.

2 The dynamic system takes advantage of the fact that appliances with an operating cycle do not require a constant power supply.

3 A router is a special account that routes messages when several networks are connected.

My brother Michael used to be …A teacher in …A village school near …(nije bilo linije za popuniti) Cambridge. …The job was interesting but tiring and not very well-paid. He spent most of his free time on his hobby – collecting and repairing …- antique clocks. Then he had …AN idea. The (ovde je bila prazna linija, trebalo je ubaciti clan)CBI (Confederation of British Industry) was …- helping people start up by themselves. Why not go on …A training course, apply for …A loan and set up …A small business? So he sent in his registration to …THE school, said good-bye to …THE children, and joined the(ovde je bila prazna lija, trebalo je ubaciti clan) unemployed. He obtained …- information from …- different sources, took …- advice from …AN accountant, left …THE village and(mozda je bila linija za popuniti) learnt all about …THE antique trade. Eighteen months later he has his own shop and was earning about 2.000 pounds …A month. “It was …THE best thing I ever did,” he said.

**I Rewrite these sentences to emphasise the words in italics.**

1 *Laser light* can switch faster than electric current.

It is laser light that can switch faster than electric current

2 Marconi sent *a radio signal* accross Atlantic ocean.

What Marconi sent accross Atlantic ocean was a radio signal.

3 Apple launched OS X operating system *in 2001*.

It was in 2001 that Apple launched OS X operating system

**II Replace the words in italics in each sentence with the appropriate form of an *–ise* verb.**

1 If you hire a company they can make you a system *which has been converted for computers*.

If you hire a company they can make you a computerised system.

2 Nowadays you need to *make solutions which are* *tailored to the customers*.

Nowadays you need to customise solutions.

3 Your data should be *put into categories*.

Your data should be categorised.

**III Report the questions.**

1 “Where are you going?”

He asked me where I was going.

2 “Have you ever visited any foreign country?”

They asked if I had ever visited any foreign country.

3 “Did you get the email I sent you last night?

She wanted to know if I had got the email she had sent me the night before.

4 “Does he know why we are late?”

She asked if he knew why they were late.

**IV Link these statements using a relative clause with a participle.**

1 a) Subject dictionaries are hierarchically organised indexes.

b) They are categorised into subject areas.

Subject dictionaries are hierarchically organised indexes categorised into subject areas.

2 a) Telnet is an Internet service.

b) It enables users to log on to their computers at a distance.

Telnet is an Internet service enabling users to log on to their computers at a distance.

**V Join the sentences into one using a relative pronoun.**

1 Digital Terrestrial TV is a technology. It allows you to receive more channels and a better picture.

Digital Terrestrial TV is a technology which allows you to receive more channels and a better picture.

2 A computer geek is a person. He is an enthusiastic user of computers.

A computer geek is a person who is an enthusiastic user of computers.

3 An address bar is the area in your browser display. The web address is displayed there.

An address bar is the area in your browser display where the web address is displayed.

**VI Complete the sentences with either comparative or superlative form of the adjectives and adverbs in the brackets (4).**

1 John drives motorbike more carefully (careful) than me.

2 Although many computers have hard disk drives with a capacity of 80 to 160 GB, many home users want more spacious (spacious) drives.

3 You can do this now more easily (easy) than before.

4 I want the most reliable (reliable) system that exists.

**VII Translate the following sentences into English.**

1. Da biste pokrenuli veoma zahtjevne aplikacije trebaće vam brz procesor, mnogo RAM memorije i prostran disk.

In order to run higly demanding applications you will need a fast processor, plentuful RAM and spacious disk.

2. Jedna od osnovnih motivacija za upotrebu OOP-a jeste rukovanje multimedijalnim aplikacijama u kojima su različite vrste podataka kao što je zvuk i video spakovane zajedno u izvršne module.

One of the main motivations for using OOP is to handle multimedial applications in which different types of data such as sound and video are packed together into executable modules.

3. Roboti su sastavljeni od jakog metala, neprestano su svjesni i mogu lako da podnesu krajnosti okoline. Robots are comprised of strong metal, constantly conscious and can easily stand the extremes of the environment.

**Revision II**

**I Rewrite these sentences to emphasise the words in italics.**

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It is Laser light that can switch faster than electric current.

2 Marconi sent *a radio signal* accross Atlantic ocean .

What Marconi sent across Atlantic ocean was a radio signal.

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It was in 2001 that Apple launched OS X operating system.

**II Replace the words in italics in each sentence with the appropriate form of an *–ise* verb.**

1 If you hire a company they can make you a system *which has been converted for computers*.

If you hire a company they can make you a system which has been computerised.

2 Nowadays you need to *make solutions which are* *tailored to the customers*.

Nowadays you need to make solutions which are customised.

3 Your data should be *put into categories*.

Your data should be categorised.

**III Report the questions.**

1 “Where are you going?”

She asked where I was going.

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He asked if I had ever visited any foreign country.

3 “Did you get the email I sent you last night?

She asked if I had got the email she had sent me the night before.

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**V Join the sentences into one using a relative pronoun.**

1 Digital Terrestrial TV is a technology. It allows you to receive more channels and a better picture.

Digital Terrestrial TV is a technology which allows you to receive more channels and a better picture.

2 A computer geek is a person. He is an enthusiastic user of computers.

A computer geek is a person who is an enthusiastic user of computers.

3 An address bar is the area in your browser display. The web address is displayed there.

An address bar is the area in your browser display where is displayed the web address.

**VI Complete the sentences with either comparative or superlative form of the adjectives and adverbs in the brackets (4).**

1 John drives motorbike ……more carefully…. (careful) than me.

2 Although many computers have hard disk drives with a capacity of 80 to 160 GB, many home users want ……more spacious….. (spacious) drives.

3 You can do this now ……more easily.…. (easy) than before.

4 I want ……the most reliable…... (reliable) system that exists.

**VII Translate the following sentences into English.**

1. Da biste pokrenuli veoma zahtjevne aplikacije trebaće vam brz procesor, mnogo RAM memorije i prostran disk.

2. Jedna od osnovnih motivacija za upotrebu OOP-a jeste rukovanje multimedijalnim aplikacijama u kojima su različite vrste podataka kao što je zvuk i video spakovane zajedno u izvršne module.

3. Roboti su sastavljeni od jakog metala, neprestano su svjesni i mogu lako da podnesu krajnosti okoline.

1. To run very demanding applications, you will need fast processor, a lot of RAM and spacious disc.

2. One of the main motivations for using OOP is to handle multimedia applications in which different data types can be packaged together.

3. Robots are made of strong metal, are constantly aware and can easily to handle environmental extremes.

**VIII Explain the difference between ESP Now and ESP Mesh protocols.**

ESP-NOW are usually used for low power devices. It can save the time to build connection with other device after it's waken up from sleep mode, so we can save more power. ESP now protocols have more reliability, but on the other hand Mesh protocol offers features like - building a network, automatic root node selection, etc.

I Complete the conditional sentences in the situations using the word in brackets(5).  
1 A colleague has a lot of candidates to interview.(Offer to help)  
if you \_need help I will interview some candidates. (help/interview)  
2 A colleague has a new computer but can’t get It to work.(advice)  
If I \_were you I would call help line. (be you/call help line)  
3 A member of your team was ill while they were at work. (regret)  
If I \_had known, I would have sent him home. (know / send home)  
4 A colleague has lost her mobile phone in the office. (advice)  
If you \_called me I would find you phone. (call / find)  
5 I worked too hard and burned out. (regret)  
If I \_had worked less I wouldn’t have burned out. (less/burned)

## II Complete these definitions with correct participle of the verb given in the brackets(5).

1 *Telnet* is an Internet service…enabling…(enable) users to log on to their computers at a distance.  
2 *FTP* is an Internet service…used …..(use) to download files from server.  
3 *IRC* is an Internet service…allowing….(allow) users to chat in real time.  
4 The *Web* is an Internet service …making ….(make) webpages available to millions of users worldwide.  
5 The *Internet* if huge number of computers…linked … (link) together.

## III Complete the sentences using the correct form of the word in brackets(6).

1 Most library databases are …accessible... via the Internet. (Access)  
2 Aircraft flight …simulation …. is used to train pilots. (Simulate)  
3 This book will show you how to …computerize … your small business. (Computer)  
4 From kitchen magnets to computer disks, …magnetism … plays a central role in the technology of everyday life. (Magnet)  
5 I have bought a new, … programmable… keyboard. (Program)  
6 She is a computer …consultant … and specializes in IT strategies. (Consult)

## IV Re-write the first sentence in reported speech with the words given (5)

1 ‘We haven’t watched that show before.’  
They said …that they hadn’t watched that show before.  
2 ‘I don’t want to diversify in the immediate future.’  
He said ….that he didn’t want to diversify in the immediate future.  
3 ‘We are not going to move too fast.’  
He said …that they were not going to move too fast.   
4 ‘She may be in the office.’  
He said …that she might be in the office.   
5 ‘We will not compromise with terrorists.’  
The Minister said …that they would not compromise with terrorists.

## V Use the word given in brackets to form a word that fits into the space(3).

1 None of his …inventions…………….. ever worked. (invent)   
2 The race was very …competitive ….. but he eventually won. (compete)  
3 …Consumption ….. of electrical goods has increased this year. (consume)

## VI Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Paul Bennett was killed after he…had climbed (climb) into a giant industrial tumble dryer to free a piece of cloth trapped inside. The machine… started…(start) accidentally and he was spun to death. It became (become) evident that his employer… hadn’t gave …(not give) him proper training and a jury… decided …(decide) that there…had been …(be) an ‘unlawful killing’ – it was satisfied beyond reasonable doubt that Mr. Bennett…had died …(die) as a result of manslaughter.

## VII Write the verbs in brackets in the correct form (4).

1 While he…was writing (write) the email, we…were having...(have) discussion in another office.  
2 They are coming after they… have had … (have) dinner.  
3 People started complaining about the product after we…had launched …(launch) it.  
4 I will send the invitations as soon as I…receive …(receive) the addresses.

## VIII Explain how each of there actions happen using –ing clause(3).

1 MP3 reduces the information stored … by stripping out sounds that most people can’t hear.   
2 You can ‘rip’ the audio information from a CD …. By using ripper.  
3 You can access many free and legal music files for downloading …. By using your web browser.

## IX Link each pair of actions using a time clause(3).

1 a) With POP3, email is stored on the server.  
 b) You check your email account.  
With POP3, email is stored on the server UNTIL you check your email account.  
2 a) You have clicked on a hyperlink.  
 b) You have to wait for the webpage to be copied to your computer.   
ONCE you have clicked on a hyperlink, you have to wait …  
3 a) You listen to the first part of a streamed audio file.  
 b) The next part is downloading.  
AS you listen to the first part of a streamed audio file, the next part is downloading.

## X Translate the following sentences into Serbian (3).

1 In host-based mail system SMTP is the only protocol the server uses where received messages are stored locally and retrieved from the local file system by mail program.  
U domacinski baziranom mail sistemu SMTP je jedini protocol koji server koristi gdje se primljene poruke smjestaju lokalno i preuzimaju od lokalnog file sistema od strane mail programa.

2 Most advance home networks are likely to have a client/server structure with low-cost terminals, or ‘thin’ clients, connected to a central server which maintains the system’s storage capacity.  
Vecina naprednih kucnih mreza vjerovatno imaju klijent/server strukturu sa jeftinim terminalima, ili ‘malim’ klijentima, konektovanim na centralni server koji odrzava kapacitet sistemskog skladista.

3 The purpose of the system is to help smooth power demand for the benefit of electric utilities.  
3 Сврха система је да помогне у изглађивању потрошње енергије у корист електричних услуга.

## XI Translate the following sentences in English (3).

1 Dinamicki kontrolni sistem potraznje se moze ugraditi u elektricne aparate koji rade po principu radnih ciklusa.  
  
2 Potraznja za elektricnom energijom varira I elektricne central moraju da se izbore sa vrhuncem potraznje.  
  
3 Modem je uredjaj koji prebacuje digitalne signale u analogne I obratno da bi omogucio racunaru da prenosi I prima podatke..

1 The dynamic demand control system can be installed in electrical appliances that work on the principle of operating cycles.

2 Demand for electricity varies and power plants have to cope with top demands.

3 A modem is edited that converts digital signals to analog and vice versa to allow the computer to transmit and receive data.

Grupa B

## I Complete the conditional sentences in the situations using the word in brackets(5).

1 A colleague needs some figures urgently for a sales report. (offer to help)  
If you…tell me what figures do you need I will send them immediately. …….(tell me/ send immediately)  
2 Your friend failed his driving test because he drove too fast. (criticize)   
If you…hadn’t drive too fast you wouldn’t have failed.(drive/fail)  
3 A member of your team is late for work again. (threat)  
If you…are late again I will report you. ….(be late/report)  
4 A colleague wonders whether to put the presentation on a CD or not.(advice)  
If I….were you I would put it ….(be you/put)  
5 I didn’t set the alarm so I overslept. (regret)  
If I…had set alarm I wouldn’t have overslept…. (set/oversleep)

## II Fill each gap with a verb from the brackets, using the correct form of the Past Simple or the Past Perfect (7).

Neil said that Roy, who used to enjoy riding with him on his bike,…followed ..(follow) him as he set off. He told the child to go back to his mother, and…rode..(ride) away. Meanwhile, Roy’s mother thought that Roy…had gone..(go) with Neil; Neil believed Roy…had stayed..(stay) behind. It…was..(be) only some hours later, when Neil…returned..(return), that they realized Roy…had vanished..(vanish).

## III Complete the sentences using the correct form of the word in brackets(6).

1 The combination of….electronics and new textile materials has made it possible to create musical jackets that can read our hear rate. (Electron)  
2 An….erasable. optical disc allows data to be deleted and new data to be recorded. (Erase)  
3 A video….digitizer. is used to convert analogue video into digital video files. (Digit)  
4 She is a computer…consultant.. and specializes in e-commerce. (Consult)  
5 Is this format…convertible..? (Convert)  
6 The two major…manufacturers.. of processor chips are Intel and AMD. (Manufacture)

## IV Complete these definitions with correct participle of the verb given in the brackets(5).

1 A *LAN* is usually a network…connecting.(connect) computers over a small distance.  
2 *CMC* is communication…using …….(use) computers.   
3 A *search engine* is a Internet search tool…consisted of..(consist of) databases if information that can be searched using keywords  
4 *Subject directories* are hierarchically organized indexes categorized… (categorize) into subject areas.  
5 A *gateway* is a collection of hardware and software…enabling..(enable) a network to communicate with a dissimilar network.

## V Re-write the first sentence in reported speech with the words given (5).

1 ‘Charles has just phoned and he wants to see you.’  
She said…that Charles had just phoned and that he wanted to see you ……  
2 ‘If we don’t do something quickly we’ll lose out to our competitors.‘  
He said…that if they didn’t do something quickly they would lose out to their competitors …  
3 ‘You can leave your suitcases in the left-luggage lockers over there.’  
She said….that I could leave my …..  
4 ‘Our firm has a few old-fashioned computers and we don’t know what to do with them.’  
He said…

5 ‘My salary will not keep pace with of living.’  
She said……

## VI Use the word given in brackets to form a word that fits into the space(3).

1 There was a small… ……improvement…. in the IT sector this year. (improve)  
2 They closed the building because it was…(nije safer, mozda je the safest)………unsafe ………. . (safe)  
3 They will make their… decision….tomorrow. (decide)

## VII Explain how each of there actions happen using –ing clause(3).

1 You can alter the look of your MP3 player… by using skin program  
2 You can convert a WAV file to MP3 format… by using ripper.  
3 You can control how the music sounds….. changing volume, bass etc.

## VIII Link each pair of actions using a time clause(3).

1 a) The graphics can be displayed gradually.  
 b) The webpage is downloaded.  
AS  
2 a) You receive an email message.  
 b) You can forward it to another address.  
WHEN

3 a) You can bookmark a webpage to make it easier to find in the future.  
 b) You find a webpage you like.  
WHEN

## IX Write the verbs in brackets in the correct form (4).

1 We’ll meet again next week after you… change…..(change) your position.  
2 While he… was waiting…………..(wait) to be called they gave the offer to someone else.  
3 As long as your company… offers …………..(offer) good terms, we will do business with you.  
4 I…had already moved …………..(already/move) to Paris before they offered me the job there.

## X Translate the following sentences into Serbian (3).

1 Special isolation adapters can be fitted to allow existing mains lines to be used instead of twisted-par cabling.  
2 SMTP is very straightforward, providing only facilities to deliver messages to one or more recipients in batch mode.  
3 In order to maintain continuous supply of power we have to make continual checks, and adjust the power load we generate.

Posebni izolacioni adapteri se mogu postaviti tako da omogućavaju da se koriste postojeće mrežne linije umesto kablova sa uparenim paricama.  
  
SMTP je vrlo jednostavan, pružajući samo objekte za isporuku poruke jednom ili više primalaca u batch načinu rada.  
  
U cilju održavanja kontinuiranog snabdevanja energije moramo da vršimo stalne provere, i prilagoditi rad napajanja koji smo generisali.

## XI Translate the following sentences in English (3).

1 Veoma je tesko sacuvati elektricnu energiju u velikim kolicinama pa koristimo inovativnu tehniku da bismo pohranili elektricnu energiju tokom perioda slabe potraznje.  
  
2 Dinamicki sistem iskoristava cinjenicu da aparati sa radnim ciklusom ne zahtijevaju stalno napajanje.  
  
3 Ruter je poseban racunar koji usmjerava poruke kada je nekoliko mreza povezano.

1 The dynamic demand control system can be installed in electrical appliances that work on the principle of operating cycles.

2 Demand for electricity varies and power plants have to cope with top demands.

3 A modem is edited that converts digital signals to analog and vice versa to allow the computer to transmit and receive data.