

Phrases 2

- before we're **done with** for loops, let's **check out** some **common mistakes** you may **come across** while trying this yourself. ????? for ?????????????????????????????????
- iterate ; iteration ; iterable
 - a certain type isn't **iterable** ??????????
 - stop the **iteration** process **early** ?????????
 - A for loop **iterates over** each element. for ?????????
- you are able to **examine** each **individual** element in the string and **manipulate** it **how you'd like** ?????????????(??)????????????????
- Python does not **consider** "567.89" a number Python ???567.89????????
- You can't **mix** single and double **quotes** in the same string **or** you'll get a syntax error ?????????????????????????????????
- Select the correct **iterative** statement ?????????
- **Unintended** infinite loops, **Unexpected** infinite loops ???????
- Why initializing variables **matters** ?????????
- Can you **work out** what this function does ?????????
- A while loop will **continuously** execute code **depending on** the value of a condition. while ?????????????????
- learn how to **leave** the loops **up to** the computer ?????????
- organize;structure
 - how to organize our code and functions
 - how to structure our code and functions
- Is it even **practical** to **avoid** systemd any more ??? systemd ??????
- **Unfortunately**, some of these services **don't have an alternative** any more ?????????????(???)?????
- Many of the **complaints** people **make about** it ?????????
- **Much like** how **decisions** affect different **outcomes** in our **everyday lives** ?????????????????????
- her prospect will want a **follow up meeting** to **further discuss** her company's proposal ?????????????????????
- If Maria **closes a deal** with a **major potential client**, her boss will reward her with a **raise** to acknowledge her hard work ?? Maria ?????????????????????
- at least;at most
 - Invalid username. Must be at least 3 characters long
 - Invalid username. Must be at most 15 characters long
- remember that this **technique** can **only be used** when you're returning a value **inside** the if statement ????????? if ??????
- Companies can set different **criteria** for what a valid username looks like. ?????????????????
- the result is a **Boolean** of the **appropriate** value ?????????

- **Refactoring** code - a process to **restructure** code without changing functionality ?????
- ??????????????????
- This **principle** can be applied to all **aspects** of writing code from picking your variable names to writing **clear concise** expressions.
??
- argument; parameter; variable
 - The type() function returns the data type of its **argument** type() ??????????????
 - we can **pass** values into a function as **parameters** by passing values like the name or department in the example **earlier**
??
- Let's make it do a little more ??????????
- All those functions **come as** a part of the language, and we'll look into **a bunch of** other **built-in** Python functions **throughout** this course ???????? Python
?? Python ??
- **It's like** giving yourself and other developers **hints** about what kind of data the variable **is supposed to hold**. ?????????????????????????????????????
- **As you get more familiar with** Python, you'll be able to **communicate** more **efficiently** **with** computers and **do more with** your data analysis tools ??? Python
??
- you'll **surely make progress** as a Python learner ?? Python ??????????????
- there are a few **guiding principles** and resources that can **help you along the way**.
????????????????????????????
- **Conditional** statements: Sections of code that **direct** program execution based on specified **conditions** ?????? ?????????????????????????????
- **getting familiar with** its fundamental syntax and semantics will be useful for your **future career** ?????????????????????????????
- The same is true for programming ??????????
- We **went through** a lot of new concepts and it might **take several passes** until you **feel comfortable with** them ???
- Code editors and IDEs are **essential** for writing **efficient** Python code. ???????? IDE
??????????? Python ???????????
- It is a **popular** IDE that many developers use and **love**
- It is **great for** beginners because it is **easy to use** and has **a large community** of users **which means** there are **tons (lots) of** tutorials and resources **available** online
??
- **Overall**, PyCharm is a great choice **when it comes to** an IDE. ???????? IDE ??PyCharm
???????
- An IDE is a software application that provides **comprehensive facilities** for software development IDE ?????????????????????????????
- Now it's **your turn** to try! **Give this a go** yourself. ????(?)????????????
- We won't **get into** these in this course but if you want to learn more about them **on your own** ?????????????????????????????(???)???????
- Python actually has a lot **more advanced** numeric **capabilities** that are used for data analysis, statistics, machine learning, and other **scientific** applications Python
??
- You might need to count how many times a **certain** word **appears** in a text, or **work out** the average time it takes for **an operation to complete**
??
- you could **have the program ask** you for data interactively ??????????????????

- There are **platform-specific** scripting languages like PowerShell which is used on Windows
- There are also **general-purpose** scripting languages similar to Python
- **There's almost always** someone on the Internet who's **trying to do what you're doing** and can help **point you in the right direction** when **you're stuck**.
- **Not only that**, but it's also **used in** fast-growing **areas of IT**
- The **most important thing to remember** is that you're never alone.
- It's **really important to keep in mind** that even experienced programmers may need to ask a colleague a question **from time to time** or look something up on the Internet
- classmate(s);teammate(s)
- So if at any point you **get stuck**, don't **get discouraged**. **Making mistakes helps you improve**. The more you **see** failure or **broken code as** an opportunity to learn
- **A large part of** programming is learning through trial and error and asking questions.
- if you're **planning a career in IT**, **chances are** you'll interact with Python quite a bit.
- Python **was considered** a beginner's language and **was mostly used for** teaching concepts or writing very small simple scripts
- can > may > could > might
- **Semantics** are the **meaning** and **logic** of coded statements
- so it is important to **be mindful of** syntax when writing code
- If your code **results in** an error or an exception, **pay close attention to** syntax and **watch out for** minor mistakes
- In the meantime, ; Meanwhile
- you'll want to install Python on your computer so you can run it locally and **experiment with it as much as you like**
- We'll be here to help you **check that** you've really **got your head around** these concepts with regular **quizzes** like this.
- If you **got most of** the questions **right**, great job. If not, **no worries** it's all **part of** learning
- using a computer to perform a **certain** task.
- **human intervention** is required to complete the tasks
- we'll be talking about when it **makes sense** to apply automation and exactly how you do it.
- some tasks just **aren't suited for** automation.
- foundation;basic;fundamental
 - the **fundamental** concepts of computer programming
 - The program **is designed to** teach you the **foundations** of programming in Python
 - **Throughout** this course, we'll be teaching you the **basics** of programming and automation
- Discovering and defining your own **career identity** makes you better equipped to choose a **career path** that **aligns with** your **strengths, values, and goals**

- you can **earn** the certificate **whenever** you finish ????????????????
- When you **enroll in** the course ??????????
- Personal data will **be kept confidential**, with your name **separated from** your data ??????????????????????
- You'll get **hands-on experience** with programming concepts through **interactive exercises** and **real-world examples**. ??????????????????????
- The role of a sysadmin can **vary a lot from** company **to** company and even within different teams in the same company.
??
- **In any case**, this program is **tailor-made** for you. ??????????????????
- **tailored** to your needs ??????????
- automation; automate; automatically; automatic
 - automating repetitive tasks
 - automated processes complete instructions exactly as coded
 - Scripts can be used for automating specific tasks
 - the automatic system
 - understand their role in automation
 - focus on how this language applies to automating tasks in the world of IT systems support
 - we'll be talking about automation, which is the process of getting computers to automatically do a task that us humans normally have to do by hand
??
- So don't be afraid to make mistakes, it will give you a leg up. ??????????????????
- Working in IT is more than just a job. It's a career path ?? IT ??????????????????
- **The common thread across all of these roles** is **knowing how to** write code to solve problems and **automate solutions** ??????????????????????
- Those who push themselves to learn how to code in Python typically saw strong **career growth**. ?????? Python ??????????????????
- **To be able to** take courses **at my own pace and rhythm** has been an amazing experience ??????????????????
- Commit to **experimenting with** AI for something that will make a real difference to you and your work ?????? AI ??????????????????
- Gen AI tools can help you get started with writing a program **from scratch** too. This can **save** lots of time and **boost productivity**. Gen AI
??
- carefully consider if you need to use **confidential or sensitive** information to perform your task ??????????????????(??)???????
- AI has helped **make me** more efficient and creative in my **daily work**, ?????????? AI
????????????????
- add **a new capability to** start debugging directly from chat ???????? chat ??????
- Luis will **introduce you to** the ways that he **incorporates AI into** his daily workflows to do things like check code, understand system vulnerabilities, and more. Luis
??????????? AI ??????????????????????
- In the **upcoming** series of videos you will **be introduced to** Luis ?????????????????? Luis
- You can also use generative AI to **augment routine tasks** ?????????? AI ??????????
- **simplify** day-to-day work; **streamline** communications ??
- offering powerful **capabilities** to analyze data, **streamline** communications, and make **informed decisions** ??????????????????????

- But this **functionality** is **mostly** not needed in an embedded application
????????????????
- details that **quantify** an accomplishment ??????????
- Everybody else is doing so much better ??????????
- Reflecting on your career **no matter where you've worked** ??????????
- **There's no way you can know everything.** We have people who work on those things across the company and **you don't have to know everything.**
????????????????
- Those **folks** can support you, and they can also **be a great example of how far you've come** when you share your skills with them as well
????????????????
- If your **internet service** is not fast enough **to allow for** a video interview, you can **request** a phone interview **instead** ??????????
- you should download that software, **if you don't have it already** ??????? (??????)
- **Typically**, the recruiter or hiring manager will **reach out to you** over the phone or email **to share** information **about which software will be used** for the interview
????????????????
- you'll also be **going into detail** about your **knowledge of the profession** ??????????
- you'll talk with the recruiter or hiring manager about yourself, **the kind of work or training** you have, and why you want the job
????????????????
- It's important to **showcase** your best self in the introductory phone call
????????????????
- It shows that **you're willing to** take the time to ... ??????????
- You've learned a lot through this program that can **help you stand out as** a candidate
????????????????
- What is an effective way **to stand out** as a candidate ??????????
- can help **set you apart as a great candidate** for the job ??????????
- If **you'd like**, you can let the company know that you appreciate the opportunity to be considered and that you'd be interested in any future roles that might be a good fit
????????????????
- XXX and YYY are two **distinct** components XXX ? YYY ??????
- improving model **accuracy**, reducing **hallucinations**, and **tailoring** LLMs for specific tasks ??????, ?????????? LLMs
- **While** fine-tuning may **be ideal for certain** use cases ??????????
- generative model; generation quality; generated response ?????; ?????; ?????
- Once the **most relevant** data points ??????
- an external knowledge source **in relation to** a user query ??????????
- My team **works closely with** our remarkable security experts??...?????
- It's likely that...; It's unlikely that... (???...; ???...)
- Python **considers a new line to** be a type of whitespace. (?...??...)
- we're going to **put together** everything we learned about lists and strings (?????)
- This process **is often referred to** as parsing(????.../??...)
- This will allow us to analyze them **more easily**.(????)
- **Essential** Python components for **automation**???/??; ????
- You could **incorporate** a conditional statement to only perform these actions if the device IDs meet **certain** conditions???/????/???
- you might **iterate** through a list of device IDs using a for loop????
- you have just **been informed of** a new criteria for employee IDs.????...?

- As one example; As an example (?????)
- Regardless of the **timeframe**??????
- When new models are released you'll simply **swap** them **out without needing to** rewrite your **entire codebase**. (??; ???; ?????)
- Microsoft's Azure cloud services **experienced a significant outage**, causing **widespread disruption**. (????????, ?????????)
- with great power comes great responsibility (????, ?????)
- **At the moment**, there is no unified way (??)
- providing flexibility for **different usage scenarios** (??????????)
- **As shown** in the images provided (????????)
- **requiring no GPU / without the need for** a GPU (??? GPU)
- to provide a **more comprehensive** toolset for users (? ??/??)
- if **incorporated into** LM Studio in the future (??/??)
- you have to deal with **plenty of** image files (???)
- Fortunately 16GB of RAM is **more than sufficient** for many home users. (????)
- which could lead to **false positives** (??????????/??/??)
- Does not **heat up** even under heavy load (????????????)
- then the issues started to **show up** (??????????)
- I have no idea **what's that for** (??????????)
- Thanks for your reply.
 - I appreciate your message.
 - I was so pleased to hear from you.
 - Thank you so much for responding to my email.
 - Thanks for getting back to me.
 - Thank you for the prompt reply.
 - Thank you for the quick reply.
- In simple words/In simple terms (????), In summary (??)

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