1. What is Linux Kernel?

Operating System is in charge of the communication between the software and the hardware. Windows XP, Windows 8, Linux and Mac OS X are all examples of operating system.

The Linux kernel is a free and open-source operating system.

It is created by Linus Torvalds in 1991.

Linux has gained in popularity over the years due it being open source and Linux kernel-based Android OS on smartphones has made Linux most popular OS.

1. What is Python?

Python is a widely-used programming language. It was created by Guido van Rossum, and released in 1991.

Python works on different platforms (Windows, Mac, Linux, Raspberry Pi, etc).

Python has a simple syntax similar to the English language.

Python has syntax that allows developers to write programs with fewer lines than some other programming languages.

What makes python special?

-easy to learn and use

-easy to get, free

-easy to teach and understand codes

1. What is function in Python?  
   A function is a block of code which is executed only when it is called. To define a Python function, the def keyword is used.
2. **What is Git?**

Git is a free and open source, distributed version-control system for tracking changes in source code during software development.

## What is the major focus of a Version Control System?

A major focus of version control system (also known as revision control or source control) is to manage the changes to the files, programs, logs, and other information related to code development, code deployment, and code operation.

## What is a Repository?

A repository is a directory or storage space where your projects can live. You can keep code files, text files, image files, etc. inside a repository.

1. BRS ve SRS  
   Bir yazılım geliştirme projesinde BRS (Business Requirement Specification), müşterinin gereksinimlerini detaylandıran bir belgedir. Bu, işle ilgili bilgileri ve yazılımda uygulanması gereken süreçlerle ilgili ayrıntıları içerir. SRS (Yazılım Gereksinimleri Belirtimi), bir yazılım sisteminin gereksinimlerini belirtir. Geliştirilmesi gereken sistemin bir açıklamasını içerir. SRS, kullanıcıların yazılım sistemiyle nasıl etkileşime girdiği, işlevsel olmayan gereksinimler vb. Gibi bilgileri içerir.