## **Project 2: Installing Bioinformatics Softwares on the terminal**

*N/B: You need to install and setup your conda environment with either anaconda or miniconda.*

Please copy exactly what worked. Do not paraphrase. A single mismatch makes you loose your point.

1. Activate your base conda environment

|  |
| --- |
| $ conda activate base |

1. Create a conda environment names funtools

|  |
| --- |
| $ conda create --name funtools |

1. Activate the funtools environment

|  |
| --- |
| $ conda activate funtools |

1. Install Figlet using conda

|  |
| --- |
| $ conda install tsnyder::figlet |

1. Run the following command figlet {your name}. Put a screenshot of what you see below 😀

A screenshot of a computer screen

Description automatically generated

1. Install bwa through the bioconda channel

|  |
| --- |
| $ conda install bwa |

1. Install blast through the bioconda channel

|  |
| --- |
| $ conda install blast |

1. Install samtools through the bioconda channel

|  |
| --- |
| $ conda install samtools |

1. Install bedtools through the bioconda channel

|  |
| --- |
| $ conda install bedtools |

1. Install spades.py through the bioconda channel

|  |
| --- |
| $ conda install spades.py |

1. Install bcftools through the bioconda channel

|  |
| --- |
| $ conda install bcftools |

1. Install fastp through the bioconda channel

|  |
| --- |
| $ conda install fastp |

1. Install multiqc through the bioconda channel

|  |
| --- |
| $ conda install multiqc |

To submit this project, make this document open using the **🔒share icon** at the top right corner. Copy the link and submit it on HackBio platform.

**Finally, everyone in your team should be ready to discuss your code submission with Learning Resources:**

The Official learning resource for this internship is [**HackBio’s Genomics Course**](https://thehackbio.com/courses/25). Sign up to enjoy uninterrupted and synchronized flow of bioinformatics knowledge. If you have access to the course already, everything you need for the internship is already provided in the course.

However, we have plans for you if you are unable to purchase the course. We have gathered some resources for you to help you learn and navigate the internship better.

**Stage 1**

* How to [Access the terminal](https://youtu.be/vf2WwRX76zs?si=9YSCvwwTWBs8zM41) for the purpose of stage 1 and 2
* [Introduction to BASh](https://www.youtube.com/watch?v=tK9Oc6AEnR4)
* [How to setup and use Conda](https://www.youtube.com/watch?v=P6eGTN9QN2Q)
* [An article on bioconda usage from HackBio](https://www.linkedin.com/pulse/how-install-more-than-90-bioinformatics-tools-anaconda-hackbio-wkhve/?trackingId=Py0afa6zSBShH91fFdMYWg%3D%3D)
* The rest is practice! practice!! practice!!!