**INFORMATION TECHNOLOGY DEPARTMENT - A.Y. 2022-23, EVEN TERM - INTERNSHIP (3180701)**

## DAILY DIARY FOR STUDENT DOING OFFLINE INTERNSHIP

| | | |
|---|---|---|
| Student's Enrollment No | : | 190630116058 |
| Student's Name | : | Krunal B. Prajapati |
| Name of Industry Mentor | : | Mr. Vivek Nair |
| Designation of Industry Mentor: | | Senior Engineer |
| Name & City of Industry | : | e-infochips, Ahmedabad. |
| Date of Internship | : | From: 23/01/2023          To: |

**WEEK - 1  (STARTING DATE:   23/01/2023          ENDING DATE: 29/01/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|---|---|---|---|---|---|
| 1 | 23/01/2023 | 10:00 am | 6:00 pm | HR introduction<br>Explain the onboarding process | |
| 2 | 24/01/2023 | virtually | | Discussion with L&D team<br>Discussion on Engagement plan | |
| 3 | 25/01/2023 | Virtually | | Learning Linux<br>Ubuntu Desktop 16.04<br>Desktop Customization 16.04,<br>Installing Software 16.04<br>Basic Commands | |
| 4 | 26-27/01/2023 | Virtually | | Working with Regular Files<br>File Attributes<br>Redirection Pipes<br>Working with Linux Process<br>The Linux Environment<br>Simple filters<br>The grep command<br>More on grep command<br>The sed command<br>More on sed command<br>Give the exam Linux on Spoken tutorial Platform. | |
| 5 | 28/01/2023 | Virtually | | Learning Linux AWK<br>Overview of Linux AWK, Basics of awk<br>Variables and Operators in awk<br>Built-in Variables in awk | |
| 6 | 29/01/2023 | Virtually | | Conditional statements in awk<br>Loops in awk, Basics of Array in awk,<br>User Defined Functions in awk<br>Give the exam Linux AWK on Spoken tutorial Plateform. | |

**Signature with Date:** _____

**(Industry Mentor)**

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**WEEK - 2 (STARTING DATE: 30/01/2023**  **ENDING DATE: 3/02/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|:---:|:---:|:---:|:---:|---|---|
| 1 | 30/01/2023 | 10:00 am | 6:00 pm | Onboarding/Leader Interaction | |
| 2 | 31/01/2023 | 9:30 am | 6:30 pm | SDLC Overview<br>Understanding Agile Methodology<br>Overview of other Development Approaches | |
| 3 | 01/02/2023 | 9:30 am | 6:30 pm | What is JIRA?<br>Key concepts:<br>User Stories<br>Sprints<br>Assign Tasks to the team<br>Track Issues<br>SCRUM and KANBAN Templates<br>Roadmap, Backlog and JIRA Dashboard.<br>Scrum Boards.<br>How tickets are moved between status. What is workflow.<br>How sprint works JIRA.<br>How to track progress. | |
| 4 | 02/02/2023 | 9:30 am | 6:30 pm | Module 01: Introduction to GitHub<br>What is Source Code Versioning (SVN)<br>Introduction to Git and GitHub<br>Understanding how GitHub works<br>Module 02: Setting up the GitHub Repo<br>Setting up the GitHub Project<br>Module 03: Basic Git Concepts - COMMAND LINE<br>GIT INIT<br>GIT CLONE<br>Basic Git Workflow (ADD, COMMIT, PULL and PUSH)<br>Ignoring and Deleting Files<br>Command Line | |
| 5 | 03/02/2023 | 9:30 am | 6:30 pm | config, repo, issue, gist, credits, fork<br>Module 04: Working with Trunk and Branches<br>Trunk Vs. Branches<br>Local Vs. Remote Branches<br>Branching and Merging<br>Rebasing,Stashing | |

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**WEEK - 3 (STARTING DATE: 06/02/2023**      **ENDING DATE: 10/02/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|---|---|---|---|---|---|
| 1 | 06/02/2023 | 9:30 am | 6:30 pm | What Is Linux, What is Linux Kernel, What is Linux Shell Setting up permissions on a script & Execute, Debug Display the value of shell variables Command List :<br>chmod — change permissions<br>echo — echo argument<br>grep — search file<br>head — display first part of file<br>ls — see what files you have<br>more — use to read files<br>mv — for moving and renaming files<br>pwd — find out what directory you are in<br>rm — remove a file<br>rmdir — remove directory<br>sort — sort file<br>tail — display last part of file<br>tar — create an archive, add or extract files | |
| 2 | 07/02/2023 | 9:30 am | 6:30 pm | If structures to execute code based on a condition<br>If..else..fi Nested ifs<br>Multilevel if-then-else<br>The exit status of a command<br>Conditional execution<br>Numeric comparison<br>String comparison | |
| 3 | 08/02/2023 | 9:30 am | 6:30 pm | The for loop statement<br>Nested for loop statement<br>The while loop statement<br>Use of : to set infinite while loop<br>The until loop statement<br>The select loop statement<br> Exit the select loop statement<br>Using the break statement<br> Using the continue statement. | |
| 4 | 09/02/2023 | 9:30 am | 6:30 pm | Command substitution<br> Input and Output<br>Standard input<br>Standard output<br> Standard error<br>Empty file creation<br> Redirection of standard error<br> Redirection of standard output<br>Appending redirected output | |

| | | | | Redirection of both standard error and output Writing output to files Vi editor | |
|---|---|---|---|---|---|
| 5 | 10/02/2023 | 9:30 am | 6:30 pm | Linking Commands Multiple commands Pipes How to use pipes to connect programs? Input redirection in pipes Output redirection in pipes | |

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## DAILY DIARY FOR STUDENT DOING INTERNSHIP

**WEEK - 4 (STARTING DATE: 13/02/2023**      **ENDING DATE: 17/02/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|---|---|---|---|---|---|
| 1 | 13/02/2023 | 10:00 am | 6:00 pm | **An Overview of Python: What is Python, How Python is different from other languages, Editors for Python** | |
| 2 | 14/02/2023 | 9:30 am | 6:30 pm | **Variables, Operators and data types Variables , How to define and use variable, Naming conventions Operators: Assignment, Mathematical, Conditional, Logical Data types: Numbers, String, List, tuple, dictionary. Find data types of variable Change data type of variable Control Statements Conditional control If, if-else, if-else ladder, nested if Looping For loop Range function While loop Nested loop Break Continue Else statement** | |
| 3 | 15/02/2023 | 9:30 am | 6:30 pm | **Functions Syntax of function definition Formal parameters Global versus local variables , Passing parameters and returning values understanding argument matching basics. ,Importing functions from different modules Creating customized module and importing it Lists Defining list Accessing elements: indexing of elements List slicing Modifying element Adding element: append, insert Deleting element: Del, remove, pop Modifying list: sort, reverse Merging two lists** | |
| 4 | 16/02/2023 | 9:30 am | 6:30 pm | **Tuples: Defining tuple How it is different from list How to access elements Inbuilt functions : max-min etc Merging two tuples** | |
| 5 | 17/02/2023 | 9:30 am | 6:30 pm | **Dictionary: Concept of dictionary Defining dictionary Accessing elements Inbuilt functions keys(), values(), items() etc** | |

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## DAILY DIARY FOR STUDENT DOING INTERNSHIP

**WEEK - 5 (STARTING DATE: 20/02/2023**  **ENDING DATE: 24/02/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|---|---|---|---|---|---|
| 1 | 20/02/2023 | 9:30 am | 6:30 pm | File handling Files,<br>File Operations Files and Streams<br>Creating a File<br>Reading From a File<br>Iterating Through Files<br>Writing file, Reading From a file | |
| 2 | 21/02/2023 | 9:30 am | 6:30 pm | Object oriented programming with python<br>Learning Python Classes<br>Inheritance<br>Operator Overload<br>Class Methods,<br>polymorphism<br>Construstors | |
| 3 | 22/02/2023 | 9:30 am | 6:30 pm | Working with databases<br>How to Use a Database<br>Working With a Database<br>Using SQL to Query a Database<br>Python and SQLite Creating an SQLite DB<br>Pulling Data from a DB SQLite<br>Database Files<br>Exception Handling and<br>Regular expressions<br>Try, catch, finally | |
| 4 | 23/02/2023 | 9:30 am | 6:30 pm | Multithreading in python<br>Starting a New thread Threading module<br>Synchronizing threads<br>Multithreaded priority queue<br>API integration with python<br>What is API<br>Integration with API using request module,<br>commands for GET, PUT, UPDATE, DELETE, POST requests | |
| 5 | 24/02/2023 | 9:30 am | 6:30 pm | Introduction of structure and unstructured database<br>Introduction of SQL and MySQL<br>Overview of MySQL workbench tool<br>MySQL datatypes<br>primary, foreign, candidate keys | |

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## DAILY DIARY FOR STUDENT DOING INTERNSHIP

**WEEK - 6 (STARTING DATE: 27/02/2023**          **ENDING DATE: 03/03/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|-----|------|-----------------|-------------------|--------------------------------|----------------------------|
| 1 | 27/02/2023 | 9:30 am | 6:30 pm | DDL, DML, DCL, DQL commands with implementation, Constraints in MySQL, Auto increment, Null, Create table and drop table, Insert data into table, Fetch data from table | |
| 2 | 28/02/2023 | 9:30 am | 6:30 pm | Select command variations, order by, group by, nested query Aggregate functions, Key constraints, Enum, Check, Not null, Unique | |
| 3 | 01/03/2023 | 9:30 am | 6:30 pm | MySQL table joints: Cross join, Inner join, Left join, Right join, Function and procedures, View, Indexing, | |
| 4 | 02/03/2023 | 9:30 am | 6:30 pm | Self-practice of all the concepts of MySQL learned in these weeks. Complete task given by trainer | |
| 5 | 03/03/2023 | 9:30 am | 6:30 pm | Course Overview Introduction to Testing Software Testing Principles Quality Assurance vs Quality Control Types of Tests Manual vs Automation Testing Strategies Software Testing Lifecycle (V-Shaped) Waterfall vs Agile Exercise: Discuss Different Testing Strategies | |

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**WEEK - 7 (STARTING DATE: 06/03/2023**      **ENDING DATE: 03/03/2023)**

| Day | Date | Time of Arrival | Time of Departure | Activities performed by Student | Remarks by Industry Mentor |
|---|---|---|---|---|---|
| 1 | 06/03/2023 | 9:30 am | 6:30 pm | Test Planning Writing a Test Plan Difference between Test Plan & Strategy Requirements & Specifications Scope & Objectives Risks & Mitigation Schedule | |
| 2 | 07/03/2023 | 9:30 am | 6:30 pm | Estimates Deliverables Resource: People, Environments, Data Testing Techniques- Exercise: Review Requirements & Create a Test Plan Document, postman introduction and installation, variable creation and implementatiton | |
| 3 | 08/03/2023 | 9:30 am | 6:30 pm | Test Development Writing Tests Requirements Coverage & Traceability Identifying Scenarios Test Cases Test Case Design Techniques · BVA, · Equivalence partitioning · Decision Tree · State Transition Diagram · Error Guessing, GET, POST and DELETE request using postman | |
| 4 | 09/03/2023 | 9:30 am | 6:30 pm | Test Execution Scripted vs Exploratory Testing Test Runs & Regressions Scripted vs Exploratory Testing Reporting Defects Defect Tracking tools Exercise: Execute Test Cases, Find and Report Defects, DELETE request along with all methods, Authentication and testing | |
| 5 | 10/03/2023 | 9:30 am | 6:30 pm | Self practice, Online test and hands-on | |
| 6 | | | | | |

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