Mini Project Assignment

CSF349-Cloud Computing

Submitted By:

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Submitted to:

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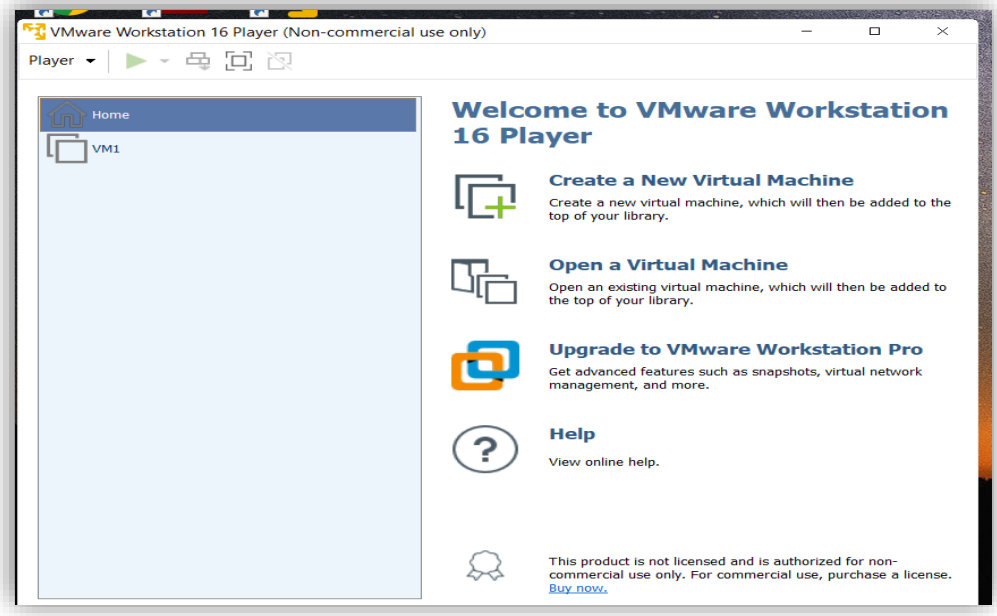
1. Problem Statement-

Create a VM for Ubuntu on Windows machine. Check C language is installed or not. If not then install and check by making program of simple calculator (+, - * and /). The output must display your name with result.

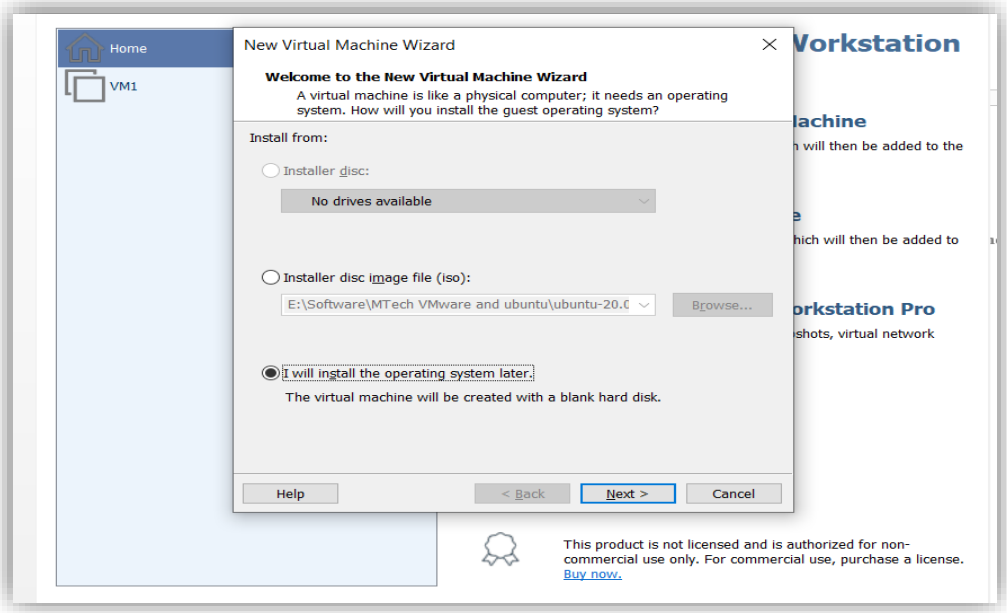
2. Steps and ScreenShots

Steps:

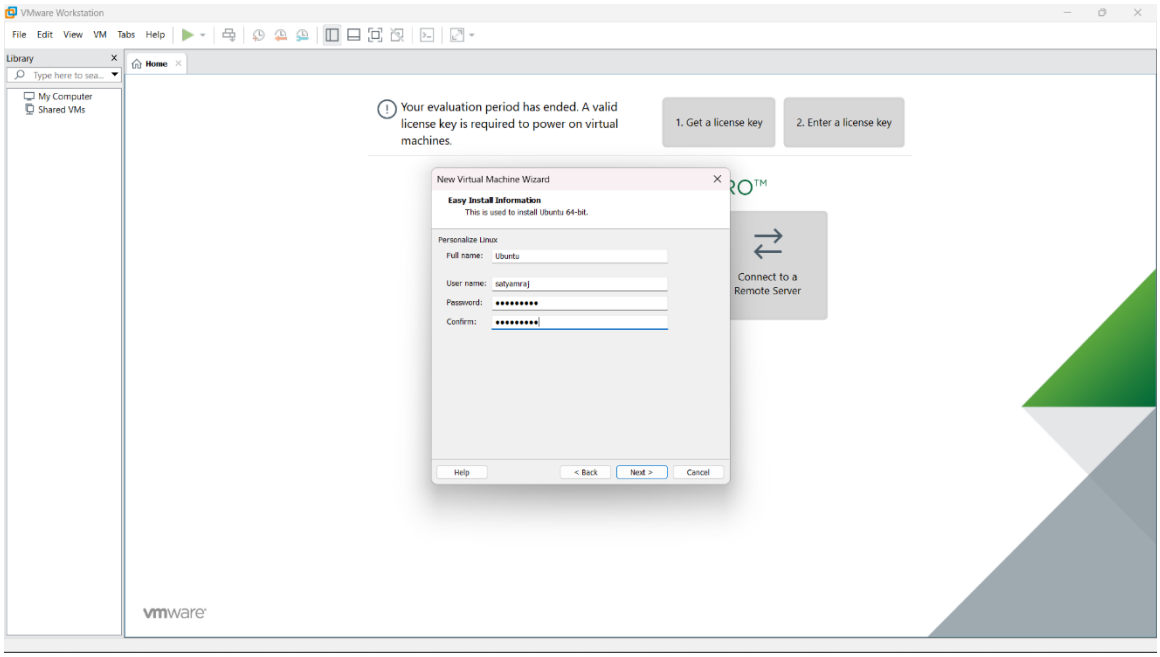
1. Open VMWare Player



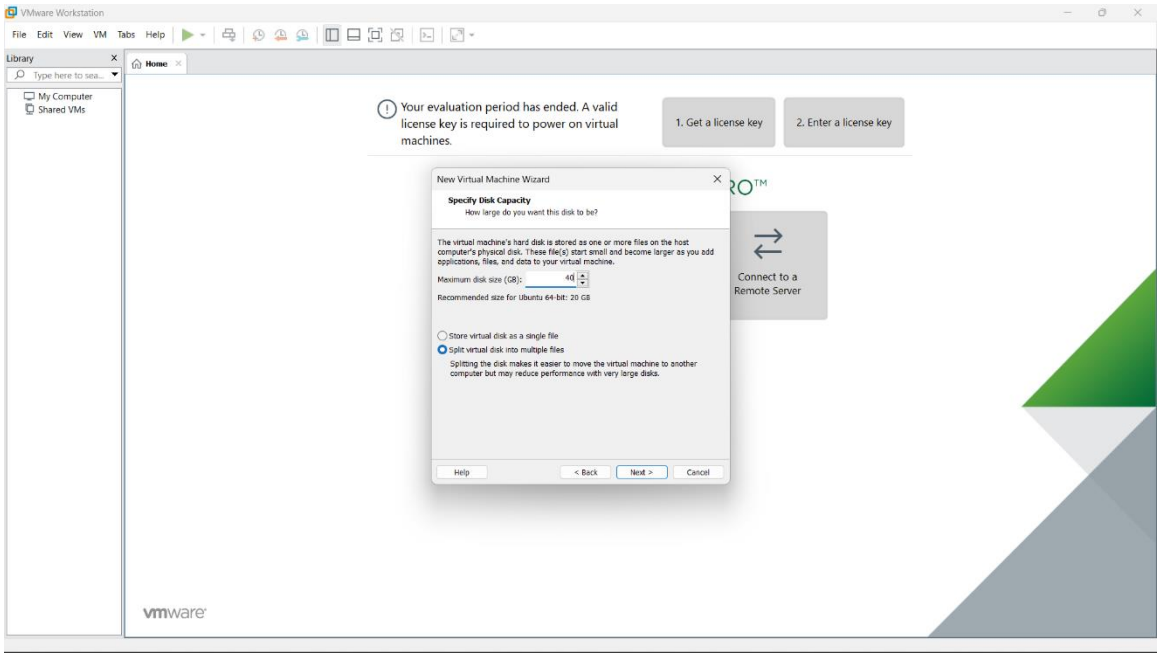
2. Click on create a New Virtual Machine
3. Click on Installer image file (iso)



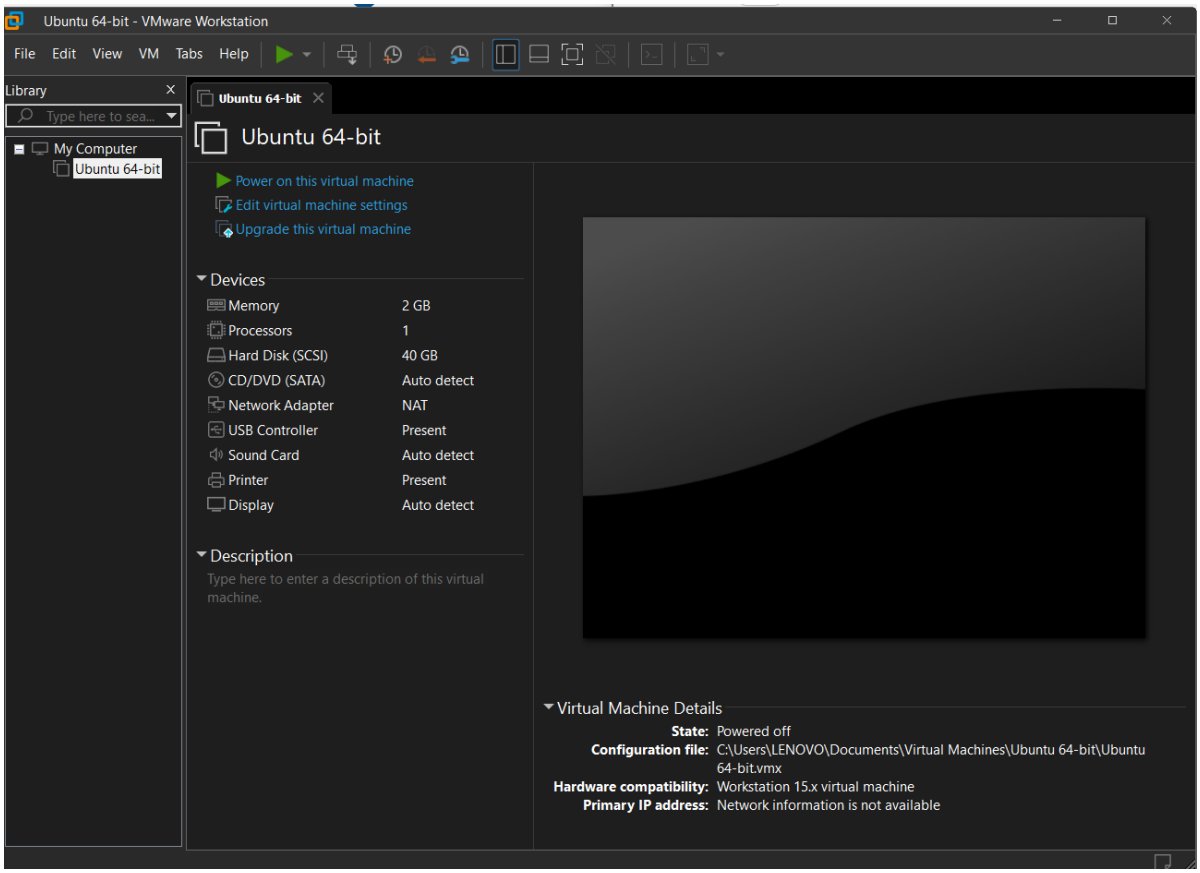
4. Click on browse- > Open :\ CSE software folder
5. Create user details login informations



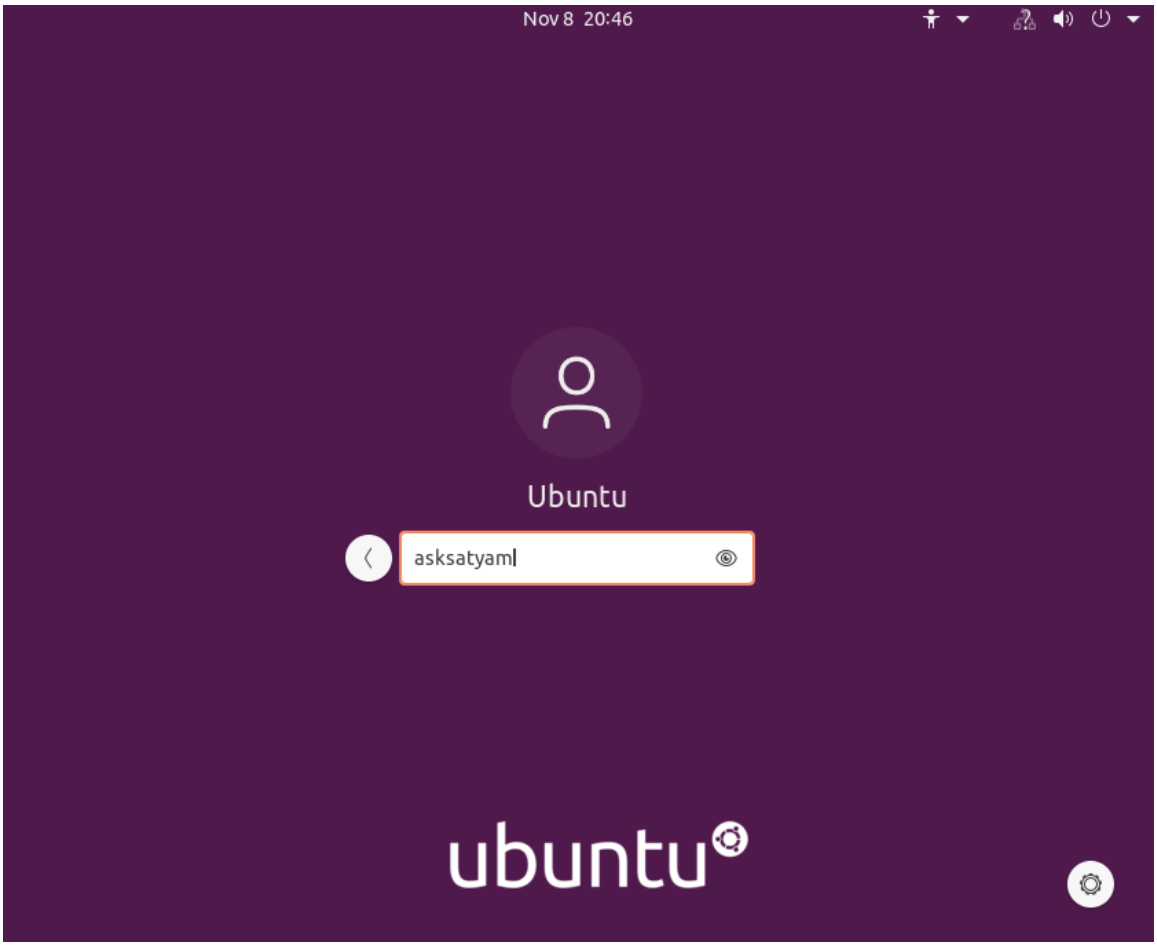
6. Configured RAM & ROM for Ubuntu in the virtual machine.



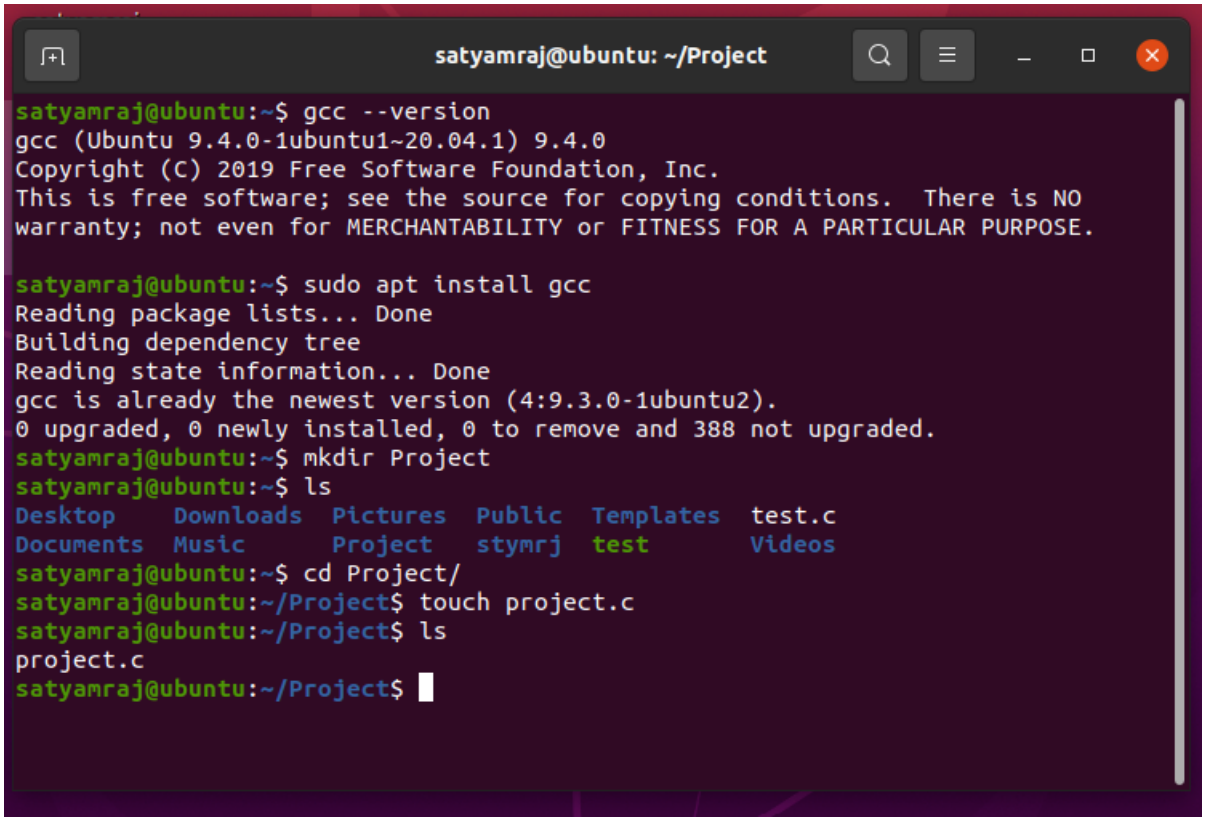
7. Successfully installed Ubuntu on VMPlayer



8. Logged into Ubuntu through my credentials



9. Checked if C is already installed or not ? and Created a Directory Named as “Project” and a c program file in this directory as “project.c”



10. Written a c program for a simple calculator in terminal using the command “ nano project.c”

My C Code :

```c
#include <stdio.h>
#include <math.h>
#include <stdlib.h>

int main()
{
    printf("\n\n\t*************************************\n");
    printf("\t     ::::::: PROJECT  :::::::\n");
    printf("\t Name: SATYAM RAJ \n");
    printf("\t SAP ID: 1000015607 \n");
    printf("\t Roll No: 200102581 \n");
    printf("\t*************************************\n\n");
    // declaration of local variable op;
    int op, n1, n2;
    float res;
    char ch;
    do
```

```
        {
            // displays the multiple operations of the C Calculator
            printf (" Select an operation to perform the calculation in C
Calculator: ");
            printf (" \n 1 Addition  \t \t 2 Subtraction \n 3 Multiplication
\t 4 Division \n 5 Exit \n \n Please, Make a choice ");

            scanf ("%d", &op); // accepts a numeric input to choose the
operation


        // use switch statement to call an operation
        switch (op)
        {
            case 1:
                // Add two numbers
                printf (" You chose: Addition");
                printf ("\n Enter First Number: ");
                scanf (" %d", &n1);
                printf (" Enter Second Number: ");
                scanf (" %d", &n2);
                res = n1 + n2; // Add two numbers
                printf (" Addition of two numbers is: %.2f", res);
                break; // break the function

            case 2:
                // Subtract two numbers
                printf (" You chose: Subtraction");
                printf ("\n Enter First Number: ");
                scanf (" %d", &n1);
                printf (" Enter Second Number: ");
                scanf (" %d", &n2);
                res = n1 - n2; // subtract two numbers
                printf (" Subtraction of two numbers is: %.2f", res);
                break; // break the function

            case 3:
                // Multiplication of the numbers
                printf (" You chose: Multiplication");
                printf ("\n Enter First Number: ");
                scanf (" %d", &n1);
                printf (" Enter Second Number: ");
                scanf (" %d", &n2);
                res = n1 * n2; // multiply two numbers
                printf (" Multiplication of two numbers is: %.2f", res);
                break; // break the function

            case 4:
```

```
                // Division of the numbers
                printf (" You chose: Division");
                printf ("\n Enter First Number: ");
                scanf (" %d", &n1);
                printf (" Enter Second Number: ");
                scanf (" %d", &n2);
                if (n2 == 0)
                    {
                        printf (" \n Divisor cannot be zero. Please enter
another value ");
                        scanf ("%d", &n2);
                    }
                res = n1 / n2; // divide two numbers
                printf (" Division of two numbers is: %.2f", res);
                break; // break the function



            case 5:
                printf (" You chose: Exit");
                exit(0);
                break; // break the function

            default:
                printf(" Something is wrong!! ");
                break;
        }
        printf (" \n \n ****************************************** \n
");
        } while (op != 7);

        return 0;
    }
```

Command for the Execution process for the code:

```
satyamraj@ubuntu:~$ cd Project/
satyamraj@ubuntu:~/Project$ nano project.c
satyamraj@ubuntu:~/Project$ rm project.c
satyamraj@ubuntu:~/Project$ ls
satyamraj@ubuntu:~/Project$ touch project.c
satyamraj@ubuntu:~/Project$ nano project.c
satyamraj@ubuntu:~/Project$ gcc project.c -o project
satyamraj@ubuntu:~/Project$ ./project
```

Output :

```
satyamraj@ubuntu:~$ cd Project/
satyamraj@ubuntu:~/Project$ nano project.c
satyamraj@ubuntu:~/Project$ rm project.c
satyamraj@ubuntu:~/Project$ ls
satyamraj@ubuntu:~/Project$ touch project.c
satyamraj@ubuntu:~/Project$ nano project.c
satyamraj@ubuntu:~/Project$ gcc project.c -o project
satyamraj@ubuntu:~/Project$ ./project


       ************************************
            ::::::: PROJECT  :::::::
        Name: SATYAM RAJ
        SAP ID: 1000015607
        Roll No: 200102581
       ************************************

Select an operation to perform the calculation in C Calculator:
1 Addition              2 Subtraction
3 Multiplication        4 Division
5 Exit

Please, Make a choice 1
You chose: Addition
Enter First Number: 458
Enter Second Number: 210
Addition of two numbers is: 668.00

*********************************************
 Select an operation to perform the calculation in C Calculator:
1 Addition              2 Subtraction
3 Multiplication        4 Division
5 Exit

Please, Make a choice 2
You chose: Subtraction
Enter First Number: 54
Enter Second Number: 10
Subtraction of two numbers is: 44.00

*********************************************
 Select an operation to perform the calculation in C Calculator:
1 Addition              2 Subtraction
3 Multiplication        4 Division
5 Exit

Please, Make a choice
```