ARTIFICIAL INTELLIGENCE

LAB TASK 2

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TASK 1

Write a program that first displays a simple cafe menu (see example below), asks the user to enter the number of a choice, and either prints the appropriate action OR prints an error message that their choice was not valid.

Example output:

1. Soup and salad

2. Pasta with meat sauce

3. Chef's special Which number would you like to order? 2 One Pasta with meat sauce coming right up! Another example output:

1. Soup and salad 2. Pasta with meat sauce

3. Chef's special Which number would you like to order? 5 Sorry, that is not a valid choice.

CODE

```
def mainmenu():
    print(".....")
    print("1. Soup and salad")
    print("2. Pasta with meat sauce")
    print("3. Chef's special")
    print("4. Quit")
    print(".....")
    while(True):
        try:
            selection=int(input("Which number would you like to order?   "))
            if selection==1:
                selection1()
                break
            elif selection==2:
                selection2()
                break
            elif selection==3:
```

```
            selection3()
            break
        elif selection==4:
            break
        else:
            print("Sorry, that is not a valid choice.")

    except valueError:
        print("Sorry, that is not a valid choice.")
exit()
def selection1():
    print(" You choose Soup and salad")
    anykey=input("Enter anything to return to main Menu :  ")
    mainmenu()
def selection2():
    print("You choose Pasta with meat sauce coming right up")
    anykey=input("Enter anything to return to main Menu :  ")
    mainmenu()
def selection3():
    print("You choose Chef's special")
    anykey=input("Enter anything to return to main Menu :  ")
    mainmenu()
print(".....")
mainmenu()
print(".....")
```

OUTPUT:

```
In [*]: 2

        ..........................................................
        ..........................................................
        1. Soup and salad
        2. Pasta with meat sauce
        3. Chef's special
        4. Quit
        ..........................................................
        Which number would you like to order?   3
        You choose Chef's special
        Enter anything to return to main Menu :
        ..........................................................
        1. Soup and salad
        2. Pasta with meat sauce
        3. Chef's special
        4. Quit
        ..........................................................
        Which number would you like to order?   2
        You choose Pasta with meat sauce coming right up

        Enter anything to return to main Menu :
```

TASK 2

Once upon a time in Apple land, John had three apples, Mary had five apples, and Adam had six apples. They were all very happy and lived for a long time. End of story. Your task is to: • create the variables: john, mary, and adam; • assign values to the variables. The values must be equal to the numbers of fruit possessed by John, Mary, and Adam respectively; • having stored the numbers in the variables, print the variables on one line, and separate each of them with a comma; • now create a new variable named totalApples equal to addition of the three former variables. • print the value stored in totalApples to the console • Check if the totalApples is greater, smaller or equal to 10

CODE

```
Appleland= {'john': 3, 'mary': 5, 'adam': 6}

value=Appleland.values()

totalApples=sum(value)
```

```
print("The totalApples is :",totalApples)
print("**************************")
print("Now Check if the totalApples is greater, smaller or equal to 10 ")
print("**************************")
if totalApples==10:
    print("TotalApples is Equal to 10")
elif totalApples>10:
    print("TotalApples is greater to 10")
elif totalApples<10:
    print("TotalApples is Smaller to 10")
else:
    print("not Applicable")
```

OUTPUT

```
In [5]: Appleland= {'john': 3, 'mary': 5, 'adam': 6}
        value=Appleland.values()
        totalApples=sum(value)
        print("The totalApples is :",totalApples)
        print("**************************")
        print("Now Check if the totalApples is greater, smaller or equal to 10 ")
        print("**************************")
        if totalApples==10:
            print("TotalApples is Equal to 10")
        elif totalApples>10:
            print("TotalApples is greater to 10")
        elif totalApples<10:
            print("TotalApples is Smaller to 10")
        else:
            print("not Applicable")

        The totalApples is : 14
        **************************
        Now Check if the totalApples is greater, smaller or equal to 10
        **************************
        TotalApples is greater to 10
```