Lab 1: To setup the environment and familiarize with Python

1. **Write a small program in Python to print your CV.**

print(**"Name:\n \t\t\t Faraz"**)  
print(**"CGPA:\n \t\t\t3.5"**)  
print(**"Semester:\n \t\t\t6th"**)  
print(**"University:\n \t\t\tIqra University Gulshan Campus"**)  
print(**"Skills:\n \t\t\tGood in java,python,"**)  
print(**"Interested In:\n \t\t\tcricket"**)  
print(**"Future Plans:\n \t\t\ app development"**)  
print(**"Experience:\n \t\t\tNone"**)

Name:

Faraz

CGPA:

3.5

Semester:

6th

University:

Iqra University Qulshan Campus

Skills:

Good injava,python

Interested In:

cricket

Future Plans:

App development

Experience:

None

1. **Write a program that takes the month (1…12) as input. Print whether the season is summer, winter, spring or autumn depending upon the input month.**

a = int(input(**'Enter the Month\n'**))  
**if**(a==1 **or** a==2 **or** a==3):  
 {print(**"Winter\n"**)  
 }  
**elif**(a==4 **or** a==5 **or** a==6):  
 {

print(**"Spring"**)  
 }  
**elif**(a == 7 **or** a == 8 **or** a == 9):  
 {  
print(**"Summer"**)  
 }  
**elif**(a == 10 **or** a == 11 **or** a == 12):  
 {  
print(**"Autumn"**)  
 }  
**else**:print(**"the month does not exist"**)

Enter the Month

6

Spring

1. **To determine whether a year is a leap year, follow these steps:**
   1. **If the year is evenly divisible by 4, go to step 2. Otherwise, go to step 5.**
   2. **If the year is evenly divisible by 100, go to step 3. Otherwise, go to step 4.**
   3. **If the year is evenly divisible by 400, go to step 4. Otherwise, go to step 5.**
   4. **The year is a leap year (it has 366 days).**
   5. **The year is not a leap year (it has 365 days).**

**Write a program to input an year as integer. Using if…else, determines whether the input is a leap year or not.**

x = int(input(**'Enter the Year\n'**))  
**if**(x%4==0):  
**if**(x%100==0):  
**if**(x%400==0):  
 {  
print(**"leap year"**)  
 }  
**else**:{  
print(**"Not leap year"**)  
 }  
**else**:{  
print(**"leap year"**)  
 }  
**else**:{  
print(**"Not leap year"**)  
}

Enter the Year

2005

Not leap year

**4. Write a program that takes a line as input and finds the number of letters and digits in the input.**

x = input(**"enter the String\n"**)  
y=z=0  
**for** s **in** x:  
**if** (s.isdigit()):  
 y=y+1  
**if** (s.isalpha()):  
 z=z+1  
print(**"letter and digit"**,z,y)

enter the String

iqra123

letter and digit 4 3

**5. Write a program that takes a sentence as input. Compute the frequency of each words and prints them.**

a = input(**'enter the sentence \n'**)

x = len(a.split())  
 print(**"Number of the word are "**,x)

enter the sentence

this is a boy

Number of the word are 4