# Assignment 15:

**Code:**

a="My city is Mexico"

b="Raghu is my friend's brother"

c='My favorite programming language is "Python"'

d="""Python is a widely used high-level, general-purpose, interpreted, dynamic programming language. It's design philosophy emphasizes code readability, and it's syntax allows programmers to express concepts in fewer lines of code than possible in languages such as "C++" or "Java"."""

print(a,'\n',b,'\n',c,'\n',d)

**Output:**  
My city is Mexico

Raghu is my friend's brother

My favorite programming language is "Python"

Python is a widely used high-level, general-purpose, interpreted, dynamic programming language. It's design philosophy emphasizes code readability, and it's syntax allows programmers to express concepts in fewer lines of code than possible in languages such as "C++" or "Java".

# Assignment 16:

**Code**:

inp=input("Enter string: ")

rev=""

for i in inp:

rev=i+rev

print(rev)

if inp.lower() == rev.lower():

print("String is Palindrome")

else:

print("String is not a Palindrome")

**Output**:

Enter string: Mam

maM

String is Palindrome

# Assignment 17:

**Code**:

a = input("String 1: ")

b = input("String 2: ")

ans=""

for i in a:

if i.isupper():

ans+=i

for i in b:

if i.isupper():

ans+=i

print(ans)

**Output:**

String 1: Arpit Kamlesh

String 2: Kubadia

AKK

# Assignment 18:

**Code**:

str=input("Enter String: ")

str=str.lower()

while str!="":

temp\_str = ""

count = 0

for j in str:

if str[0]==j:

count+=1

else:

temp\_str+=j

print(str[0],":",count)

str=temp\_str

**Output:**

Enter String: ABaBCbGc

a : 2

b : 3

c : 2

g : 1

# Assignment 19:

**Code**:

inp=input("Enter String: ")

res=""

inp\_2=""

for i in inp:

if(i==" "):

continue

else:

inp\_2+=i;

for i in range(0,len(inp\_2),2):

res+=inp\_2[i]

out=""

for i in res:

out=i+out

print(out)

**Out**:

Enter String: An apple a day keeps the doctor away

ywrtoetpeydepaA

# Assignment 20:

**Code:**

n=int(input("Enter n: "))

l=[0,1]

for i in range(2,n):

l.append(l[i-1]+l[i-2])

print(l)

**Output**

Enter n: 5

[0, 1, 1, 2, 3]

# Assignment 21:

**Code**

furniture=["Sofa Set","Dining Table","TV Stand","Cupboard"]

cost=[20000,8500,4599,13920]

req=input("Furniture you want: ")

qty=int(input("Quantity: "))

if req in furniture:

print("Furniture: ",req)

print("Amount = ",qty\*cost[furniture.index(req)])

else:

print("Not Found")

**Output:**

Furniture you want: Cupboard

Quantity: 3

Furniture: Cupboard

Amount = 41760

# Assignment 22:

**Code**

courses = ("Python Programming", "RDBMS", "Web Technology", "Software Engg.")

electives = ("Business Intelligence", "Big Data Analytics")

print(len(courses))

print(courses)

print(courses + electives)

Output:

4

('Python Programming', 'RDBMS', 'Web Technology', 'Software Engg.')

('Python Programming', 'RDBMS', 'Web Technology', 'Software Engg.', 'Business Intelligence', 'Big Data Analytics')

# Assignment 23:

**Code**

customer\_details = { 1001 : "John", 1004 : "Jill", 1005: "Joe", 1003 : "Jack" }

print(customer\_details)

print(customer\_details.keys())

print(customer\_details.values())

print([value for (key, value) in sorted(customer\_details.items())])

del(customer\_details[1005])

print(customer\_details)

customer\_details[1003]="Mary"

print(customer\_details)

if 1002 in customer\_details.keys():

print("Available")

else:

print("Unavailable")

**Output:**

{1001: 'John', 1004: 'Jill', 1005: 'Joe', 1003: 'Jack'}

dict\_keys([1001, 1004, 1005, 1003])

dict\_values(['John', 'Jill', 'Joe', 'Jack'])

['John', 'Jack', 'Jill', 'Joe']

{1001: 'John', 1004: 'Jill', 1003: 'Jack'}

{1001: 'John', 1004: 'Jill', 1003: 'Mary'}

Unavailable

# Assignment 24:

**Code:**

student={"John":86.5,"Jack":91.2,"Jill":84.5,"Harry":72.1,"Joe":80.5}

print(student)

print(sorted(student, key=student.get, reverse=True)[:2])

avg=0

for key in student.keys():

avg+=student[key]

avg=avg/len(student)

print(avg)

**Output:**

{'John': 86.5, 'Jack': 91.2, 'Jill': 84.5, 'Harry': 72.1, 'Joe': 80.5}

['Jack', 'John']

82.96