In [ ]:

```
#ASSIGNMENT 1
#Abhay Charan Patro
#BTECH/10021/18
#CSE B
```

In [ ]:

```
"""
Assignment 1
Q1)Armstrong number is a number that is equal to the sum of cubes of its digits. For exam
ple, 0, 1, 153, 370, 371 and 407 are the Armstrong numbers.
Write a program to check if an input number is an Armstrong number.
Input: 371
Output: True
Input: 5
Output: False
"""
n=input("Enter a number ")
n=int(n)
temp=n
Check_Armstrong=0
while(temp):
  Check_Armstrong=Check_Armstrong+((temp%10)**3)
  temp=temp//10
if(Check_Armstrong==n):
  print("True")
else:
  print("False")
```

```
Enter a number 371
True
```

In [ ]:

```
"""
Assignment 1
Q2)Print the Alphabet Pattern in Python, as shown below. The input will be a number n, su
ch that 1 <= n <= 26.
Input: 5
Output:
A
A B
A B C
A B C D
A B C D E
"""
import string
n=input("Enter a number ")
n=int(n)
az=string.ascii_uppercase
for i in range(1,n+1):
  for x in az[:i]:
    print(x,end=" ")
  print()
```

```
Enter a number 5
A
A B
A B C
A B C D
A B C D E
```

In [ ]:

```
"""
Assignment 1
```

```
Q3)Write a program which prompts the user for a Fahrenheit temperature, convert the tempe
rature to Celsius and print out the converted temperature.
"""
n=input("Enter the temperature in Fahrenheit that you want coverted to Celsius ")
n=int(n)
converted=(n-32)*(5/9)
print("Coverted temperature is ",converted," Celcius")
```

```
Enter the temperature in Fahrenheit that you want coverted to Celsius 67
Coverted temperature is  19.444444444444446  Celcius
```

In [ ]:

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"""
Assignment 1
Q4)Write a program to read a number from user and print it in reverse.
Input: 4321
Output: 1234
"""
n=input("Enter the number that you want reversed ")
n=int(n)
rev=0
while(n):
  rev=rev*10+n%10
  n=n//10
print("The reverse is ",rev)
```

```
Enter the number that you want reversed 4321
The reverse is  1234
```

In [ ]:

```
"""
Assignment 1
Q5)Write a program to prompt the user for hours and rate per hour to compute gross pay.
Example:
Enter Hours: 35 # Input
Enter Rate: 2.75 # Input
Pay: 96.25 # Output
"""
hrs=input("Enter Hours: ")
rate=input("Enter Rate: ")
hrs=float(hrs)
rate=float(rate)
print("Pay: ",hrs*rate)
```

```
Enter Hours: 35
Enter Rate: 2.75
Pay:  96.25
```

In [ ]:

```
"""
Assignment 1
Q6)Write a program that accepts a string from user and prints whether it is a palindrome
or not. Ignore case of characters.
Input: Nitin
Output: TRUE
Input: Ashish
Output: FALSE
"""
s=input("Enter a string ")
s=s.lower()
if(s==s[::-1]):
  print("TRUE")
else:
  print("FALSE")
```

```
Enter a string Nitin
TRUE
```

In [ ]:

```
"""
Assignment 1
Q7)Write a program to print frequency of characters in a string.
Input : www.google.com
Output: w: 3, .:2, g:2 , … (Any format and order is OK as long as the count is correct).
"""
s=input("Enter a string ")
print("The count of strings is")
set=[]
for ch in s:
  if ch not in set:
    set.append(ch)
for ch in set:
  print(ch,":",s.count(ch),", ",end=" ")
```

```
Enter a string www.google.com
The count of strings is
w : 3 ,  . : 2 ,  g : 2 ,  o : 3 ,  l : 1 ,  e : 1 ,  c : 1 ,  m : 1 ,
```

In [ ]:

```
"""
Assignment 1
Q8)Write a Python program to find the first appearance of the substring 'not' and 'poor'
from a given string, if 'poor' appears after 'not', replace the whole 'not...poor' substr
ing with 'good'. Return the resulting string.
Sample String : 'The lyrics is not that poor!'
Expected Result : 'The lyrics is good!'
"""
str1=input("Enter the string ")
snot = str1.find('not')
spoor = str1.find('poor')
if spoor > snot and snot>0 and spoor>0:
  str1 = str1.replace(str1[snot:(spoor+4)], 'good')
print(str1)
```

```
Enter the string The lyrics is not that poor!
The lyrics is good!
```

In [1]:

```
"""
Assignment 1
Q9)Write a program to do the following for the string:www.google.com
a. Remove all w's before and after .google.
b. Count no of occurrence of w
"""
string="www.google.com"
count=0
new_string=""
for ch in string:
  if(ch=='w'):
    count=count+1
  else:
    new_string=new_string+ch
print("The new string is ",new_string)
print("The number of occurances of w is ", count)
```

```
The new string is  .google.com
The number of occurances of w is  3
```