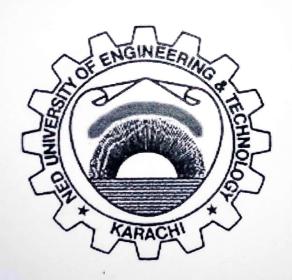
Practical Workbook

PROGRAMMING FUNDAMENTALS (CT - 175)



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- If we want to count the number of times either one particular character or a sequence of characters shows up in a string, we can do so with the count().
- We can also find at what position a character or character sequence occurs in a string. We can do this with the find() method, and it will return the position of the character based on index number.

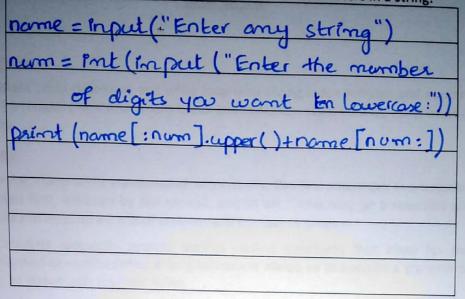
1. Write a Python program that store a person's name in a variable and then print that person's name in uppercase, and titlecase.

print that person's name in uppercase, and titlecase.
name = input ("Enter your name: \t")
print (name.upper())
print (neme. Litle ())

2. Write a Python program that store a string in a variable and ask some word in the given string using find() and return their index value as output.

Le La La Curata a constant un
str=input ("Enter any string")
word = input ("Inhat letter do you want
to find in the string")
O Company of the Comp
print (str. find(word))

3. Write a Python program to lowercase first "n" characters in a string.



C= imput ("Enter your favorsite colour")

paint (c*10)

1. Write a program that generate square of 1 to 10 numbers (using for loop).

for i in range (1, 11):

print (i, i*i)

Write a program that take a user input and to create the multiplication table (from 1 to 10) of that number.

nom=int(input ("Enter table number:\t")

count = 1

while count <= 10:

result = num * count

print(num, " x", count, " =", result)

count += 1

3. Write a program that generates fibonicca series i.e. 1, 2, 3, 5, 8, 13, 21....

```
nom = int (input ("Enter the range:\t"))

x = 0

y = 1

z = 1

while (z = y = y)

x = y

y = z

z = x + y
```

4. Write a program that generates the following pattern (using loop):

12345

for i in range (1,6):

for j in range (1,i+1):

print (j,end="")

print ("\m")

- 1. Write a python program for Stages of Life: Write an if-elif-else chain that determines a person's stage of life. Set a value for the variable age, and then:
 - If the person is less than 2 years old, print a message that the person is a baby.
 - If the person is at least 2 years old but less than 4, print a message that the person is a toddler.
 - If the person is at least 4 years old but less than 13, print a message that the person is a kid.
 - If the person is at least 13 years old but less than 20, print a message that the person is a teenager.
 - If the person is at least 20 years old but less than 65, print a message that the person is an adult.
 - If the person is age 65 or older, print a message that the person is an elder.

age=int(input("Enter person's age"))
if (age < 2):
premt ("Baby")
elif age == 2 or age < 4:
print ("Toddler")
elif age == 4 or age < 13:
print ("Kid")
elif age == 13 or age < 20:
print ("Teenager")
elif age == 20 or age < 65:
Prent ("Adult")
elif age >=65:
print ("Elder")
else:
print ("Something went wrong")

2. Write a Python program that prints all the numbers from 1 to 20 except 9 and 13. (Note: Use 'continue' statement).

for i in range $(1, 21)$: If $i=9$ or $i=13$: continue
Continue
print (1°, end = "").
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3. Write a program to determine whether a year entered through the keyboard is a leap year or not.

year = int (input ("Enter year: \t")) if year /, 4 == 0:
if year 1, 4 == 0:
print ("Its a leap year")
else:
print ("Its not a leap year")
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1. Write a function called check_armstrong() that accepts one parameter as number. The function should return value whether the entered number is an Armstrong number or not.

```
num=input ("Enter any number")
def check_curmstrong(x):
     length = len (x)
     ans = 0
     for y in x:
         power= int(y) ** length
         ans = ans + power
     If ans == int (x):
           return ("True")
     else:
          return ("False")
val = check armstrong (num)
if val = = "True":
   print(int(num), "is an Armstrong rum")
else:
   print(int(num), "is not an Armstrong num")
```