#Python P1 Write a python program that asks the user to enter their name and their age and Print # out a message addressed to them that tells them the year that they will turn 100 years old.

```
from datetime import date
name=input("Enter your name:")
print(name)
age=input("Enter age")
age=float(age)
print(age)
year=100-age
print(year)
# creating the date object of today's date
todays_date = date.today()
 # printing todays date
print("Current date: ", todays_date)
# fetching the current year, month and day of today
print("You will be 100 years old in year: ",int(todays date.year+year))
#Python P2: Write a program to check whether the number is even or odd, print out an appropriate
# message to the user
c=input("Enter a number to check even or odd:")
c=int(c)
print(c)
if c\%2 == 0:
  print(c,"is Even")
else:
  print(c,"is Odd")
#Python P3: Write a program which will find all such numbers which are divisible by 7.
endno=input("Enter end number upto which you want to find all numbers which are divisible by 7:")
print(endno)
e=int(endno)
for i in range(1, e,1):
  if i%7==0:
    print("Numbers divisible by 7 is :",i)
#python P4: Write a program that takes a list of numbers (for example, a = [5, 10, 15, 20, 25]) and
# makes a new list of only the first and last elements of the given list. Write this code inside a
# function.
c = [5, 10, 15, 20, 25]
print ("Old list:",c)
def firstLast (a):
  new list = [(a[0],a[-1])]
  print ("New List: ",new_list)
firstLast(c)
```

# python P5: Write a program that returns a list that contains only the elements that are common between the lists (without duplicates). Make sure your program works on two lists of different sizes. # Find common elements in both lists.

```
list1=[6,7,8,233,44,233,700]
list2=[8,55,99,233,233,7]
if len(list1)==len(list2):
  print("Lists have same length")
else:
  print("Lists do not have same length")
  print(" Common elements in both lists ")
  print(set(list1).intersection(list2))
# python P6: Write a program (using functions!) that asks the user for a long string containing
multiple words. Print back to the user the same string, except with the words in backwards order.
# E.gif input is "I am Msc student" output is: "student Msc am I"
inputString = input("Enter you string : ")
print(inputString)
inputString = inputString.split(" ")
print(inputString)
inputString.reverse()
inputString = " ".join(inputString)
print(inputString)
# python P7: Write a Python program to solve the Fibonacci sequence using recursion.
def fibbonci(n):
  if n in {0,1}:
    return n
  else:
    return (fibbonci(n-1)+fibbonci(n-2))
no=int(input("Enter number of terms upto which fibbonci series to print: "))
for i in range(0,no,1):
  print(fibbonci(i))
# python P8: Write a Python program to copy the contents of a file to another file
with open('first.txt','r') as firstfile, open('second.txt','a') as secondfile:
  for line in firstfile:
    secondfile.write(line)
print("done successfully")
```

# python P9: Write a Python class named Circle constructed by a radius and two methods whichwill #compute the area and the perimeter of a circle

```
class Circle():
  def radius(self,radius):
    r = radius
  def area(self,r):
     area = 3.142*r*r
     print("Area of the circle is: ",area)
  def peri(self,r):
     peri = 2*3.14*r
     print("Perimeter of the circle is: ",peri)
obj = Circle()
radius = int(input("Enter the radius of circle: "))
obj.area(radius)
obj.peri(radius)
# python P10: Write a program that prints out all the elements of the list that are less than 10
list1=[1,7,8,2,99,56,3]
for x in list1:
  if x<10:
     print(x)
# python P11: Write a program that accepts a sentence & calculate the number of letters and digits.
s = input("Input a string: ")
d=l=0
for c in s:
  if c.isdigit():
    d=d+1
  elif c.isalpha():
      l=l+1
  else:
      pass
print("Letters", I)
print("Digits", d)
# python P12: Write a Python program to count the number of lines in a text file.
with open("first.txt", 'r') as fp:
  lines = len(fp.readlines())
print('Total Number of lines:', lines)
```