PYTHON ASSIGNMENT 1

WEEKS 1

QUESTIONS

1. Write a program which will find all such numbers which are divisible by 5 but are not a multiple of 11, between 1000 and 2000 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

Code:

for i in range(999,2001):

if((i%5)==0 and (i%11)!=0):

print(i,end=",");

1. Write a program to find the factorial of a number

Code:

def fact(n):

if n==0 :

return 1

else:

return n\*fact(n-1)

n=int(input("enter the number"))

result=fact(n)

print(result)

1. Write a program to check whether a given number is even or odd

code:

n=int(input("enter the number"))

if n%2==0:

print("it is even number")

else:

print("it is odd number")

1. Write a program to check whether a given number is prime or not

code:

n=int(input("enter the number"))

count=0

for i in range(2,n+1):

if n%i==0:

count=count+1

if count==1:

print("it is a prime number")

else:

print("it is not prime number")

1. Write a program to print the following pattern.



Code:

n=int(input("enter the num of rows"))

for i in range(n+1):

for j in range(i):

print("\*",end=' ')

print()

1. Write a program to print the following pattern



Code:-

n=int(input("enter the num of rows"))

for i in range(n):

for j in range(n-i-1):

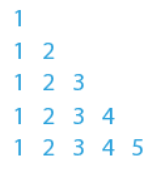
print(" ",end="")

for k in range(i+1):

print("\*",end=" ")

print()

1. Write a program to print the following pattern.



Code:

n=int(input("enter the num of rows"))

for i in range(n+1):

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

print(j,end=' ')

print()

1. Write a program to check whether a year is a leap year or not?

Code:

n=int(input("enter the number"))

if n%4==0:

print("it is a leap year ")

else:

print("it is not leap year")

1. Given a list, write a Python program to swap first and last element of the list.

code:

l=[10,23,45,65,43,67,34,20]

n=len(l)

l[0],l[n-1]=l[n-1],l[0]

print(l)

1. Given a list in Python and provided the positions of the elements, write a program to swap the two elements in the list.

Code:

l=[1,2,3,4,5,6,7,8,9]

print(l)

l[2],l[5]=l[5],l[2]

print(l)

1. Write a program to check whether an element exists in the list using Python

Code:

l=[1,2,3,4,5,6,7,8,9]

num=int(input("enter the element"))

if num in l:

print("it is exit")

else:

print("it is not exit")

1. Given a list, find the most frequent element in it. If there are multiple elements that appear maximum number of times, print any one of them.

Code:

l=[1,2,3,4,5,1,3,5,7,9,1,3,3]

max\_count=0

most\_frequent=0

for i in range(len(l)):

count=0

for j in range(len(l)):

if l[i]==l[j]:

count+=1

if count>max\_count:

max\_count=count

most\_frequent=l[i]

print(most\_frequent)

1. Write a program to delete an item from the list.

Code:

l=[1,2,3,4,5,6,7,8,9]

print(l)

l.pop()

print(l)

1. Write a program to remove all odd numbers from the list.

code:

l=[1,2,3,4,5,6,7,8,9]

m=[]

for i in l:

if i%2!=0:

m.append(i)

print(m)

1. Create a tuple with all even numbers from 1 to 20 using a for loop

code:

s=[]

for i in range(1,21):

if i%2==0:

s.append(i)

m=tuple(s)

print(m)