**26/098/24 DAILY TASK 1**

1.**write a program to print the number from 1 to 100**

n=int(input("enter a number:"))

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

print(i)

2.**For multiples of three ,print 'fizz' instead of the number and for multiple of five ,print 'buzz**

for i in range(1,100+1):

if(i%3==0):

print("fizz")

elif(i%5==0):

print("buzz")

else:

print(i)

3.**For numbers which are multiples of both three and five ,print 'fizzbuzz**"

for i in range (1,100+1):

if(i%3==0 and i%5==0):

print("fizzbuzz")

else:

print(i)

4.**write a program that check if a number is prime**

num =int(input("enter a number: "))

if num==1:

print("not a prime number")

if num>1:

for n in range(2,num):

if num%2==0:

print(num, "is not a prime number ")

break

else:

print(num, "num is a prime number")

5.**write a program to check if a string is a palindrome**.

n="madam"

rev=""

temp=n

for i in n:

rev=i+rev

if temp==rev:

print("palindrome")

else:

print("not palindrome")

6.**write a program that generates a random number between 1 and 100and ask the user to guess it . the program should give hints('too low and too high) until the user guesses correctly**

n = int(input("Enter the guessing game: "))

guess = None

print("selecte the guess in number between 1 to 100")

while guess != n:

guess = int(input("Guess a number:"))

if guess<1 and guess>100:

print(" guess a number between 1 and 100.")

elif guess > n:

print("Too high!")

elif guess < n:

print("Too low!")

else:

print("Correct!")

7.**write a program that takes a number as input and print the sum of its digits**

n=int(input("enter a number:"))

digits = 0

digit\_sum = 0

temp = n

while temp > 0:

digit = temp % 10

digit\_sum += digit

digits += 1

temp //= 10

print(digits)

print(digit\_sum)

8.**write a program to calculate the factorial of a number using a for loop**

n=int(input("enter a number:"

fact=1

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

fact=fact\*i

print(fact)

9.**write a program to find the largest of three number using if statement**

n1=int(input("enter a number:"))

n2=int(input("enter a number:"))

n3=int(input("enter a number:"))

if n1>n2 and n1>n3:

print("return n1")

elif(n2>n1 and n2>n3):

print("return n2")

else:

print(n3)

10.**write a program to check if a number is an Armstrong number**

n =int(input("enter a number:"))

num=n

s=0

while n>0:

r=n%10

s=s+r\*r\*r

n=n//10

if s==num:

print(num," Armstrong number")

else:

print(num, "Not an Armstrong")

11.**write a program that prints the multiplications table for given number**

n=int(input("enter a number:"))

for i in range(1,11):

print(n,'x',i,'=',n\*i)

12.**write a program that counts the number of even and odd number in list**

n = [22,55,77,99,100,11,33,55]

even\_count = 0

even\_number=[]

odd\_count = 0

odd\_number=[]

for i in n:

if i % 2 == 0:

even\_number.append(i)

even\_count += 1

else:

odd\_number.append(i)

odd\_count += 1

print(even\_count)

print(even\_number)

print(odd\_number)

print(odd\_count)

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