**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**

```python
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**

```python
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**

```python
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:
```

```python
        odd_number.append(i)
        odd_count += 1
print(even_count)
print(even_number)
print(odd_number)
print(odd_count)
```