# **Python programming**

# 1.Prime (or) Not:

```
Code:
n=7
count=0
for I in range(2,n):
    if a%i==0:
        count+=1
if count>0:
    print("Prime")
else:
    print("Not Prime")
```

# 2.Palindrone (or)Not:

```
Code:
```

**Output: Prime** 

```
n="121"
if n==n[::-1]:
  print("Palindrone")
else:
  print("Not Palindrone")
output:-Palindrone
```

#### 3.Factorial:-

```
n=5
f=1
for I in range(1,n+1):
    f=f*i
    print(f)
output:-120
```

#### 4.Fibonacci:-

```
A,b=0,1
n=6
for I in range(n):
print (a)
a,b=b,a+b
Output:-011235
```

## 5.Sum of digits in a number:-

```
a=2005
sum=0
while a>0:
r=a%10
sum=sum+r
a=a//10
print(sum)
output:-7
```

#### 6.Table formate:-

```
a=2
for I in range (1,11):
  print(f"{i}*2={i*2}")
output:- 1*2=2
         2*2=4
         .....
         10*2=20
7.LCM and GCD:-
a=3
b=6
c=[]
for i in range (1,b):
   if a%i==0 and b%i==0:
      c.append(i)
gcd=max(c)
lcm=(a*b)//gcd
print(gcd,lcm)
output:-3,6
8. Prime number in range :-
x=10
y=20
for n in range(x,y+1):
  if n>1:
    for I in range (2,n):
       if(n%i==0):
         break
       else:
```

```
print(n)
```

#### output:-11 13 17 19

### 9.Leap year:-

```
n=2024
if(n%4==0 and n%100!==0 and n%400==0):
    print("Leap year")
else:
    print("Not Leap year")
output:-Leap year
```

## 10.Tech Number (or) Not:-

```
a="3025"
b=len(a)
while b%2==0:
    x=a[0:2]
    y=a[2:4]
    p=int(x)
    q=int(y)
    sum=p+q
    tech=sum**2
    c=str(tech)
if c==a:
    print("Tech")
else:
    print("Not tech")
output:-Tech
```