DAY -2 NUMBER PROBLEMS

6.#prime or not

```
n = int(input("Enter a number: "))
i = 1
count = 0

while i <= n:
    if n % i == 0:
        print(i)
        count += 1
    i += 1
print("divisors:", count)

if count == 2:
    print("Prime")
else:
    print("Not Prime")
```

#output

```
Enter a number: 10
1
2
5
10
divisors: 4
```

Not Prime

Enter a number: 11

1

11

divisors: 2

Prime

7. #factorial of a number

```
n = int(input("Enter a number: "))
fact = 1

for i in range(1, n+1):
    fact *= i
print("Factorial of", n, "is", fact)
```

#output

Enter a number: 5

Factorial of 5 is 120

8. #fibonacci series upto n terms

```
n = int(input("number of terms: "))
a,b = 0,1
print("Fibonacci series:")
for i in range(n):
```

```
    print(a,end=" ")
    a,b = b,a+b
```

9. #sum of digits of a given number

```
n = input("Enter a number: ")
sum_digits = 0
for digit in n:
    sum_digits += int(digit)
print("Sum of digits =",sum_digits)
```

#output

Enter a number: 24689

Sum of digits = 29

10. #reverse the digi of a given number

```
n = input("Enter a number: ")
rev = n[::-1]
print("Reversed number =", rev)
```

#output

Enter a number: 23456789

Reversed number = 98765432