TASK 3

1. Write a program in python to find out LCM of two numbers.

PROGRAM

lcm.py > ...

```
num1=int(input("enter num1:"))
num2=int(input("enter num2:"))

largest_num=max(num1,num2)

while(True):
    if largest_num%num1==0 and largest_num%num2==0:
        lcm=largest_num
        break
    largest_num+=1
print(lcm)
```

OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS                                   Python

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/lcm.py
enter num1:24
enter num2:36
72
PS C:\Users\Admin\Desktop\task>
```

2. Write a program in python to find out the factorial of the number.

PROGRAM

factorial.py > ...

```
num=int(input("enter number:"))
fact=1
i=1
while(i<=num):
    fact=fact*i
    i+=1
print(fact)
```

OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS                                   Python

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/
Desktop/task/factorial.py
enter number:5
120
PS C:\Users\Admin\Desktop\task>
```

3. Write a program in python to find out the HCF of two number.

PROGRAM

```python
num1=int(input("enter num1:"))
num2=int(input("enter num2:"))

sm_num=num1 if num1<num2 else num2
i=1
while(i<=sm_num):
    if(num1%i==0) and (num2%i==0):
        hcf=i
    i=i+1
print(f"hcf of {num1},{num2} = {hcf}")
```

OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/hcf.py
enter num1:150
enter num2:250
hcf of 150,250 = 50
PS C:\Users\Admin\Desktop\task>
```

4. Calculate the sum of numbers from 1 to 10 using a for loop.

PROGRAM

```python
sum=0
for i in range(1,11):
    sum=sum+i
print(sum)
```

OUTPUT

```
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/sumofnum.py
55
PS C:\Users\Admin\Desktop\task>
```

5. Print numbers from 1 to 5, expect 3 using a for loop.

PROGRAM

num.py > ...

```
for i in range(1,6):
    if i!=3:
        print(i)

```

OUTPUT

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python

```
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Adm
Desktop/task/num.py
1
2
4
5
PS C:\Users\Admin\Desktop\task>
```