

```
1  #read three number
2  #a) print largest number
3  #b) print second largest number
4  #c) sort three numbers
5
6  num1=int(input("Enter number:"))
7
8  num2=int(input("Enter number:"))
9
10 num3=int(input("Enter number:"))
11
12 if num1>num2 and num1>num3:
13
14     print(f"{num1} is largest number")
15
16     if num2>num3:
17
18         print(f"{num2} is 2nd largest")
19
20         print(f"{num1} > {num2} >{num
21 3}")
22     else :
23
24         print(f"{num3} is 2nd largest")
25
26         print(f"{num1} > {num3} >{num
27 2}")
28 elif num2>num3 and num2>num1:
29
30     print(f"{num2} is largest")
31
32     if num3>num1:
33
34         print(f"{num3} is 2nd largest")
35
36         print(f"{num2} > {num3} >{num
37 1}")
38     else :
39
40         print(f"{num1} is 2nd largest")
41
42         print(f"{num2} > {num1} >{num
43 3}")
44 elif num3>num1 and num3>num2:
45     print(f"{num3} is largest")
46
47     if num1>num2:
48
49         print(f"{num1} is 2nd largest")
50
51         print(f"{num3} > {num1} >{num
52 2}")
53     else:
54
55         print(f"{num2} is 2nd largest")
56
57         print(f"{num3} > {num2} >{num
58 1}")
```

Enter number:1

Enter number:2

Enter number:3

3 is largest

2 is 2nd largest

3 > 2 > 1

PS C:\Users\hp\OneDrive\Desktop\Exam>

program2a.py > ...

```
1  #Read a number and check
2  #a)Given number is prime
3
4
5  num=int(input("Enter the number:"))
6
7  if num<2:
8
9      is_prime=False
10
11 else:
12
13     is_prime=True
14
15     for i in range(2,num):
16
17         if num%i==0:
18
19             is_prime=False
20
21             break
22
23 print(is_prime)
24
25
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

LCM is 24

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/

Enter number:1

Enter number:2

Enter number:3

3 is largest

2 is 2nd largest

3 > 2 >1

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/

Enter the number:7

True

program2b.py > ...

```
1  #b)Given number is armstrong
2
3  num=int(input("Enter the number:"))
4
5  original_num=num
6
7  digit_count=len(str(num))
8
9  total=0
10
11 while num!=0:
12     digit=num%10
13
14     exponent=digit**digit_count
15
16     total=total+exponent
17
18     num=num//10
19
20
21 if total==original_num:
22     print(f"The {original_num} is an Armstorng number")
23
24 else:
25     print(f"The {original_num} is not an Armstorng number")
26
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

Enter number:2

Enter number:3

3 is largest

2 is 2nd largest

3 > 2 >1

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/Local/Programs/Python/Python39-64/Python.exe

Enter the number:7

True

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/AppData/Local/Programs/Python/Python39-64/Python.exe

Enter the number:153

The 153 is an Armstorng number

PS C:\Users\hp\OneDrive\Desktop\Exam>

program3.py > ...

```
1  #Program to reverse digits in a number
2
3  num=int(input("Enter the number:"))
4
5  reversed_num=0
6
7  while num!=0:
8
9      digit=num%10
10
11     reversed_num=reversed_num*10+digit
12
13     num=num//10
14
15
16  print(reversed_num)
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

2 is 2nd largest

3 > 2 > 1

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App

Enter the number:7

True

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App

Enter the number:153

The 153 is an Armstrong number

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/App

Enter the number:15687

78651

PS C:\Users\hp\OneDrive\Desktop\Exam>

program4.py > ...

```
1  # program to print lcm of 2 numbers
2
3  num1=int(input("Enter the number:"))
4
5  num2=int(input("Enter the number:"))
6
7  maximum=max(num1,num2)
8
9  while(maximum<=num1*num2):
10
11      if(maximum%num1==0 and maximum%num2==0)
12
13          print("LCM is ",maximum)
14
15          break
16
17      maximum+=1
18
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

True

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:153

The 153 is an Armstorng number

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:15687

78651

PS C:\Users\hp\OneDrive\Desktop\Exam> & C:/Users/hp/A
Enter the number:8

Enter the number:14

LCM is 56

PS C:\Users\hp\OneDrive\Desktop\Exam> |