① n = int(input("Input a number:"))

Sum_num = (n*(n+1))/2

print("Sum of the first", n, "

Positive integers :", Sum_num)

Sol:

Input a number: 2

Sum of the first : 2

Positive integers: 3.0

② i) The Sum of a & b.

Ans: The diff/- when b is sub-

tracted from a

The product of a & b.

The quotient when a is

clivided by b.

The ans :- a ^ b.

③ From math import pi.

r = float (input ("Input the radius of the circle :"))

print ("The area of the circle with radius" + str(r) + " is " + str(pi * r * * 2))

Output:

Pi = 3.1416.

④ print ("Enter the Base length of triangle :")

b = float (input ())

print ("Enter the height length triangle :")

h = float (input ())

```
a = 0.5 * b * h
print ("\n Area = ", a)
```

Ans:

Enter the base length of triangle:

5

Enter the ~~ba~~ Height length of triangle:

4

Area : 10.0

(5) Ans:

```
Celsius = int (input (" Enter the
        temperature in Degree
        Celsius that you woold
        like to Convert :"))
Fahrenheit = (celsius * 9/5) + 32
Print (" The converted temperatu
        is", Fahrenheit)
```

Ans: o/p:

```
Enter the temperature in
Degree Celsius that you
would like to Convert : 50
```

-> The Converted temperature is 122.0

(b) Ans:

```
num= int (input ("Input a four digit numbers :"))
x = num // 1000
x1 = (num - x* 1000) // 100
x2 = (num - x* 1000 - x1*100) // 10
x3 = num - x *1000 - x1* 100 - x2* 10
print ("The Sum of digits in the number is", x+x1+x2+x3)
```

O/P:

The sum of digits in the no :- 16.

(X) Ex:

5 2 1 5

↓

5 + 2 + 1 + 5

↓

16

(7) Ans:

→ Printing the minimum of 4, 12, 43, 3, 19, 100

→ print ("minimum of 4, 12, 43, 3, 19, and 100 is :", end=" ")

print (min (4, 12, 43, 3, 19, 100))

O/P:

Minimum of 4, 12, 43, 3, 19 and 100 is : 4

(8) Constants :-

SECONDS_per_minute = 60

seconds_per_Hour = 3600

Seconds_per_Day = 86400

input of :-

days = int(input("Enter number of Days :"))

hours = int(input("Enter no. of hours:"))

minutes = int(input("Enter no of minutes:"))

Seconds = int(input("Enter no of Seconds :"))

Calculate:

total_Seconds = days * Seconds_PER_DAY.

```
total_seconds = total_seconds +
        (hours * SECONDS_per_hour
total_seconds = total_seconds +
        (minites * seconds_per_Min
total_seconds = total_seconds +
        seconds.
printf("total no. of seconds : "
    "%d ", (total_seconds))
```

O/P:

```
Enter no. of days : 5
Enter no. of hours : 36
Enter no. of Minutes : 24
Enter no. of seconds : 15
total no. of seconds : 563055
```

(9) List PGM

Sample pgm:

```
NAME = str(input(" enter the
                 name : "))
Print ("hello", NAME)
```

O/P:

enter the name : User.

Hello User.

sol:

10)

```
N = int(input())
Smallest = 0
largest = 0
for i in range(N):
entered_number = int(input())
if (i==0):
Smallest = entered_number
```

```
if (entered_number < Smallest):
    Smallest = Entered_number
if (Entered_number > largest)
    largest = entered_number.
print(_Smallest)
print(largest).
```

(11) Ans:

```
My_list = [ ]
While True:
    value = input("please enter
                   a value:")
    if value > 0:
        My_list . append (value)
else:
    break.
```

```
print ("value added")
Sorted_list = sorted (My_list)
for elem in Sorted_list:
    print (f"{elem}")
reverse_Sorted_list = sorted
        (My_list, reverse=True)
for elem in reverse_sorted_list
print (f"{elem}").
```

(12)

first

Second

third.

(13) Each group the numbers should be displayed in the same order that they were entered by user.

(for ex):

3 ; -1 , 1, 0, -1, 0, -2.

PGM value:

-1, -1, -2, 0, 0, 3 & 1.

(14).