## Assignment -1

## **Python Programming**

Assignment Date	19 September 2022
Team ID	PNT2022TMID44153
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Maximum Marks	2 Marks

## Question-1:

Write a Python program to find the number of zeros at the end of a factorial of a given positive number.

Range of the number(n):  $(1 \le n \le 2*109)$ .

#### **Solution:**

```
def factendzero(n):
  x = n // 5
  y = x
  while x > 0:
  x /= 5
  y += int(x)
  return y

print(factendzero(5))
print(factendzero(12))
print(factendzero(100))
```

#### Question-2:

Write a Python program to find the number of divisors of a given integer is even or odd.

#### **Solution:**

```
def divisor(n):
    x = len([i for i in range(1,n+1) if not n % i])
    return x
print(divisor(15))
print(divisor(12))
print(divisor(9))
print(divisor(6))
print(divisor(3))
```

```
[] 6
                                                               Run
                                                                          Shell
main.py
1 - def divisor(n):
                                                                         4
2 x = len([i for i in range(1,n+1) if not n % i])
3 return x
                                                                         3
                                                                         4
4 print(divisor(15))
5 print(divisor(12))
                                                                         2
6 print(divisor(9))
7 print(divisor(6))
8 print(divisor(3))
9
```

## **Question-3:**

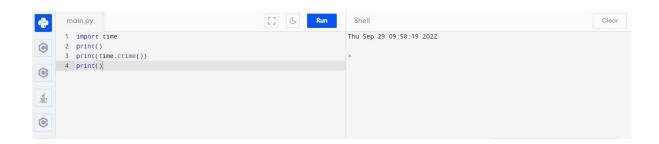
Write a Python program to get the system time

Note: The system time is important for debugging, network information, random number seeds, or something as simple as program performance.

### **Solution:**

```
import time
print()
print(time.ctime())
print()
```

## output:



#### Question-4:

Write a Python program to get the Identity, Type, and Value of an object

## Solution:

```
x = 34
print("\nIdentity: ",x)
print("\nType: ",type(x))
print("\nValue: ",id(x))
```

#### Question-5:

Write a Python program to check whether a variable is integer or string

#### Solution:

```
print(isinstance(25,int) or isinstance(25,str))
print(isinstance([25],int) or isinstance([25],str))
print(isinstance("25",int) or isinstance("25",str))
```