Assignment -2
Python Programming

Assignment Date	19 September 2022
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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 ≤ n ≤ 2*109).

Solution:

```python
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))
```

output:

```
main.py                                    [ ]  (  Run    Shell
1 ▾ def factendzero(n):                          1
2      x = n // 5                                 2
3      y = x                                      24
4 ▾   while x > 0:                                > |
5        x /= 5
6        y += int(x)
7      return y
8
9   print(factendzero(5))
10  print(factendzero(12))
11  print(factendzero(100))
12  |
```

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))
```

output:

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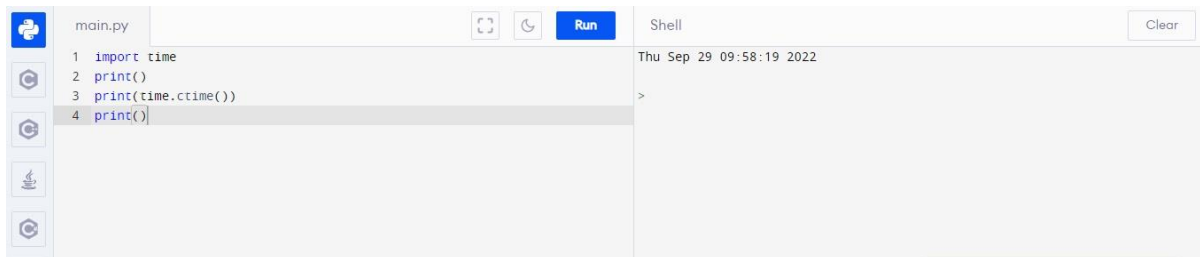
Question-3:

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))
```

output:

```
main.py                          [] (   Run          Shell                                    Clear
1  x = 34                                              Identity:  34
2  print("\nIdentity: ",x)
3  print("\nType: ",type(x))                           Type:  <class 'int'>
4  print("\nValue: ",id(x))
5                                                       Value:  9790048
                                                        >
```

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))
```

output:

```
main.py                                    [] (   Run     Shell                                    Clear
1  print(isinstance(25,int) or isinstance(25,str))       True
2  print(isinstance([25],int) or isinstance([25],str))   False
3  print(isinstance("25",int) or isinstance("25",str))   True
4  |                                                      > |
```