Assignment

Course Code- CSE 312
Course Title-Artificial Intelligence Lab.

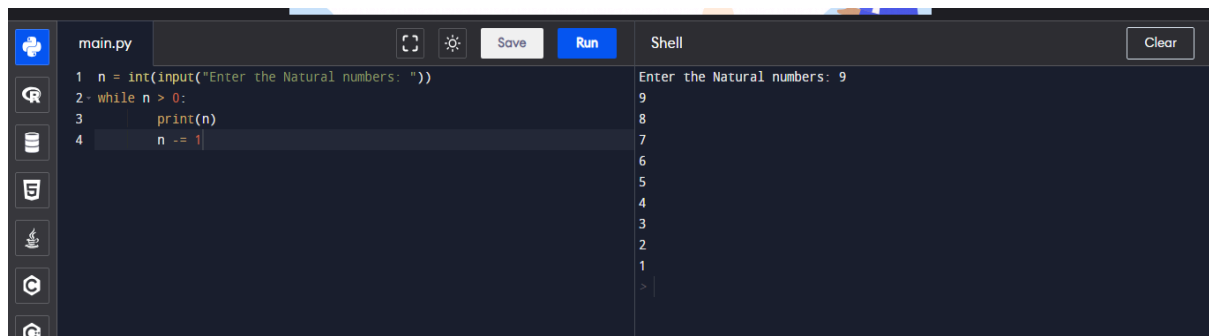 **Assignment NO: 2**
Topic name: Python basic problem solving.

Submitted by-	Submitted to-
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Q.1: Write a python program to print all natural numbers in reverse (from n to 1).

ANS:

```python
n = int(input("Enter the Natural numbers: "))
while n > 0:
    print(n)
    n -= 1
```

```
main.py                              Save   Run    Shell                                              Clear
1  n = int(input("Enter the Natural numbers: "))      Enter the Natural numbers: 9
2  while n > 0:                                        9
3      print(n)                                        8
4      n -= 1                                          7
                                                       6
                                                       5
                                                       4
                                                       3
                                                       2
                                                       1
                                                       >
```
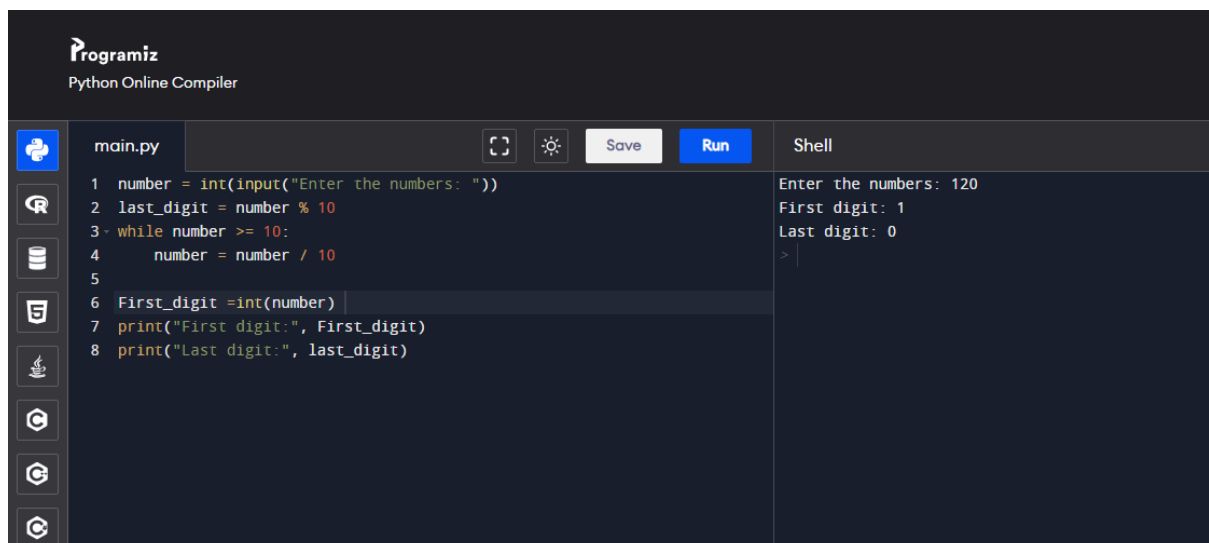
Q.2: Write a python program to find first and last digit of any number.

ANS:

```python
number = int(input("Enter the numbers: "))
last_digit = number % 10
while number >= 10:
    number = number / 10

First_digit =int(number)
print("First digit:", First_digit)
print("Last digit:", last_digiit)
```
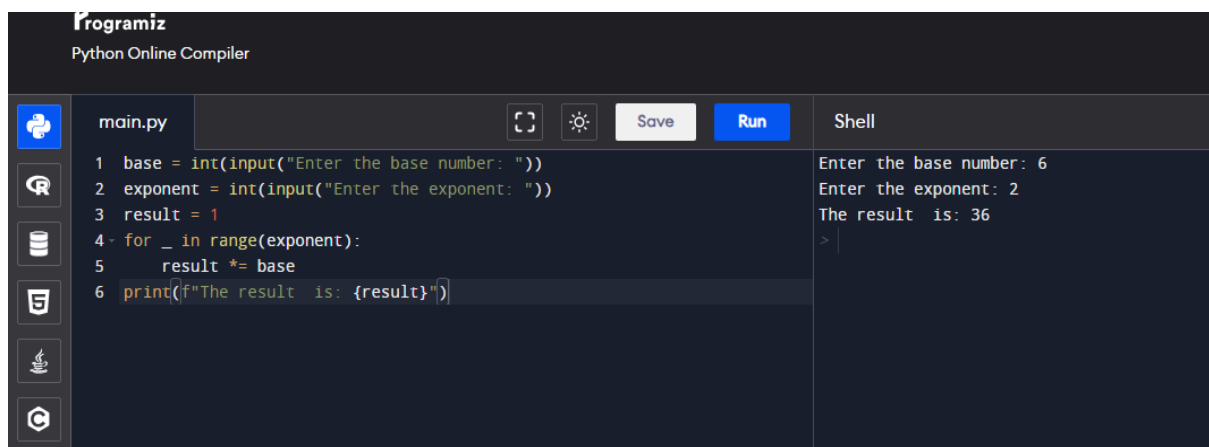
Programiz
Python Online Compiler

```
main.py                              Save   Run    Shell
1  number = int(input("Enter the numbers: "))      Enter the numbers: 120
2  last_digit = number % 10                         First digit: 1
3  while number >= 10:                              Last digit: 0
4      number = number / 10                         >
5
6  First_digit =int(number)
7  print("First digit:", First_digit)
8  print("Last digit:", last_digit)
```

Q.3:Write a python program to find power of any number using for loop.

ANS:
base = int(input("Enter the base number: "))
exponent = int(input("Enter the exponent: "))
result = 1
for _ in range(exponent):
    result *= base
print(f"The result is: {result}")