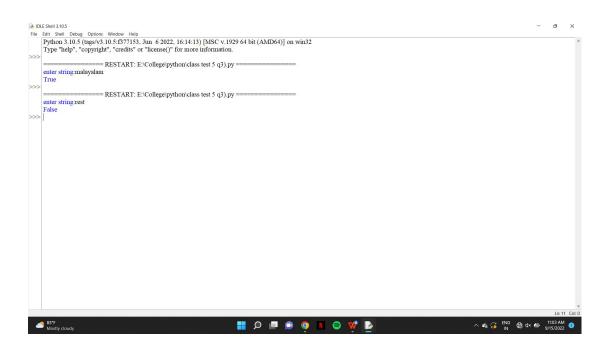
CLASS TEST-5

NAME: S.G.DEVSACHIN

```
REG.NO: 192111088
SUBJECT CODE: CSA0836
SUBJECT: PYTHON PROGRAMMING
DATE: 15/09/2022
1) Valid palindrome
def first letter index(str, left, right):
  index = -1
  for i in range(left, right + 1):
    if str[i] \ge a' and str[i] \le z':
      index = i
      break
  return index
def last letter index(str, left, right):
  index = -1
  for i in range(left, right - 1, -1):
    if str[i] \ge 'a' and str[i] \le 'z':
      index = i
      break
 return index
def solve(str):
 left = 0
 right = len(str) - 1
  flag = True
  for i in range(len(str)):
    left = first_letter_index(str, left, right)
   right = last letter index(str, right, left)
    if right < 0 or left < 0:
      break
```

```
if str[left] == str[right]:
    left += 1
    right -= 1
    continue
    flag = False
    break
    return flag
s = input("enter string:")
print(solve(s))
```

OUTPUT:



2) Roman numerals to integers

```
def value(r):
    if (r == 'l'):
        return 1
    if (r == 'V'):
        return 5
    if (r == 'X'):
        return 10
    if (r == 'L'):
        return 50
```

```
if (r == 'C'):
     return 100
  if (r == 'D'):
     return 500
  if (r == 'M'):
     return 1000
  return -1
def decimal(str):
  res = 0
  i = 0
  while (i < len(str)):
    s1 = value(str[i])
    if (i + 1 < len(str)):
       s2 = value(str[i + 1])
       if (s1 >= s2):
         res = res + s1
         i = i + 1
       else:
         res = res + s2 - s1
         i = i + 2
     else:
       res = res + s1
       i = i + 1
  return res
a=(input("Enter Roman numeral:"))
print("Integer form of Roman Numeral is:"),
print(decimal(a))
```

OUTPUT:

```
| RESTART: E3College python/class test-5 q.l. py | RESTART: E3College python/class test-5 q.l. py | Restart and the python of Roman Numeral is: | Restart |
```

OUTPUT:

