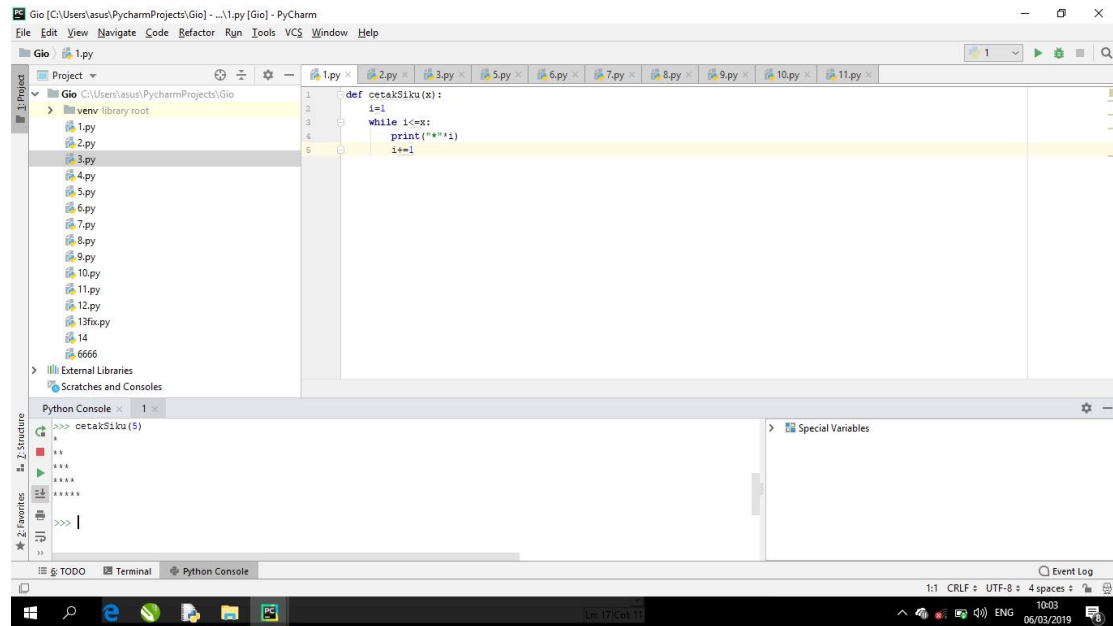
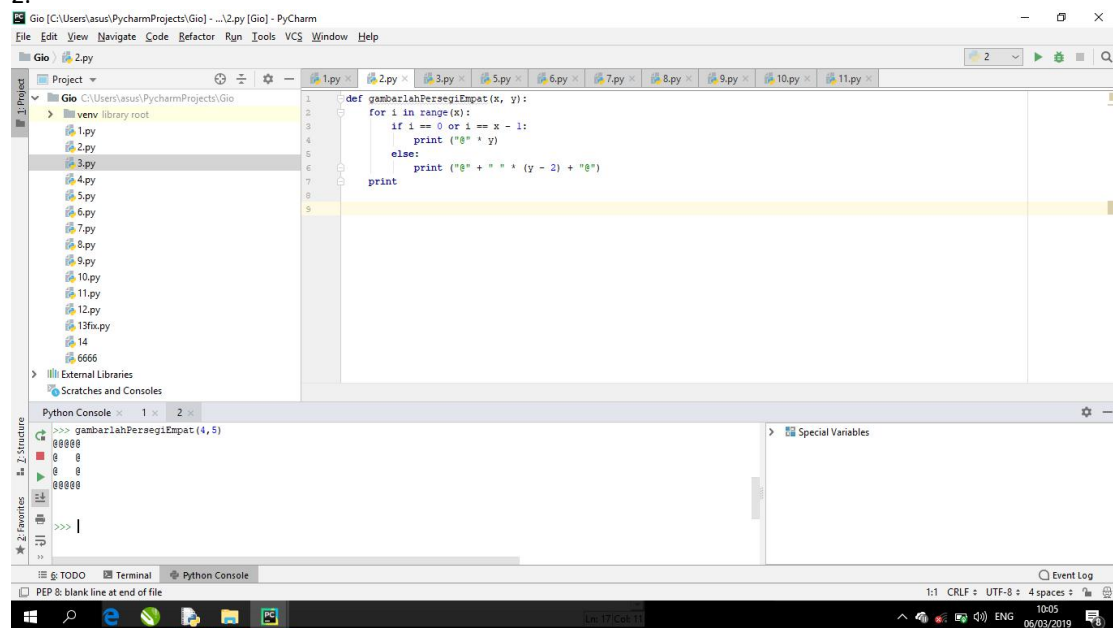


1.



2.



3.

PyCharm IDE window titled "Gio [C:\Users\asus\PycharmProjects\Gio] - ...3.py [Gio] - PyCharm". The interface shows a project structure on the left with files 1.py through 14.py and 6666. The main editor displays the code for 3.py:

```

1 def jumlahHurufVokal(a):
2     vokal = 'AIUEOaiueo'
3     jumlahVokal = 0
4     for i in a:
5         if i in vokal:
6             jumlahVokal += 1
7     z = (len(a), len(jumlahVokal))
8     print z
9
10 def jumlahHurufKonsonan(a):
11     vokal = 'AIUEOaiueo'
12     jumlahVokal = 0
13     for i in a:
14         if i not in vokal:
15             jumlahVokal += 1
16     z = (len(a), len(jumlahVokal))
17     print z

```

The Python Console at the bottom shows the following execution:

```

Python 2.7 (x27:82525, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/3.py', wdir='C:/Users/asus/PycharmProjects/Gio')
(9, 4)
>>> jumlahHurufKonsonan("Surakarta")
(9, 5)
>>>

```

The status bar at the bottom indicates "PEP 8: no newline at end of file", "1:1 CRLF", "UTF-8", "4 spaces", and the date "06/03/2019".

4.

PyCharm IDE window titled "Gio [C:\Users\asus\PycharmProjects\Gio] - ...4.py [Gio] - PyCharm". The main editor displays the code for 4.py:

```

1 def rerata(b):
2     jml = 0
3     for i in range(len(b) + 1):
4         s = len(b)
5         jml += i
6     return jml / s
7
8

```

The Python Console at the bottom shows the following execution:

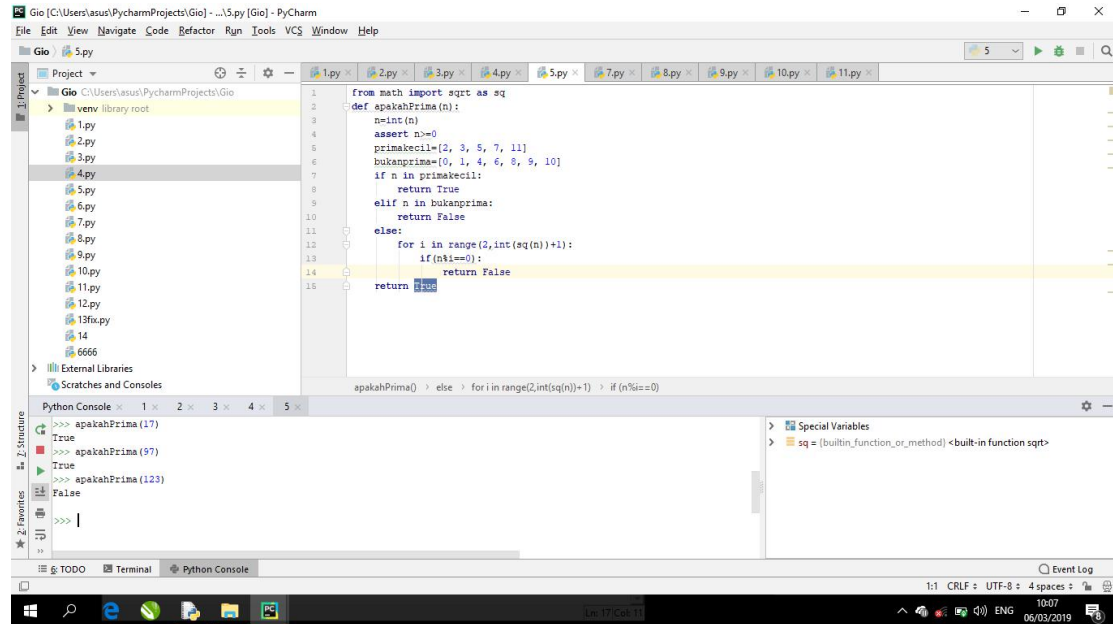
```

PyDev console: starting.
Python 2.7 (x27:82525, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/4.py', wdir='C:/Users/asus/PycharmProjects/Gio')
>>> rerata([1, 2, 3, 4, 5])
3
>>>

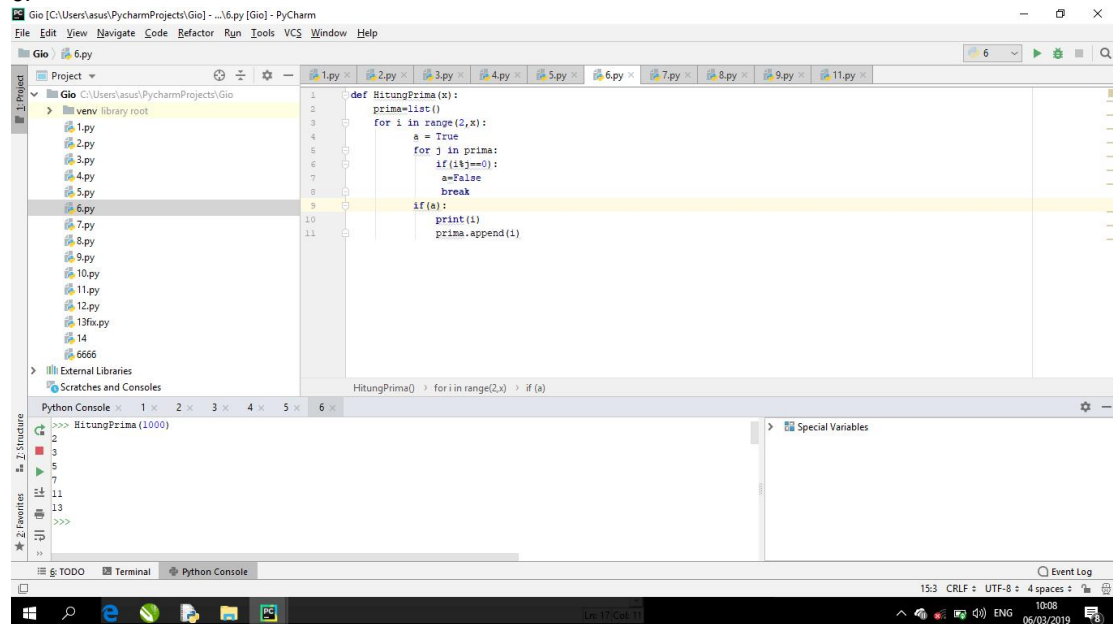
```

The status bar at the bottom indicates "PEP 8: blank line at end of file", "1:1 CRLF", "UTF-8", "4 spaces", and the date "06/03/2019".

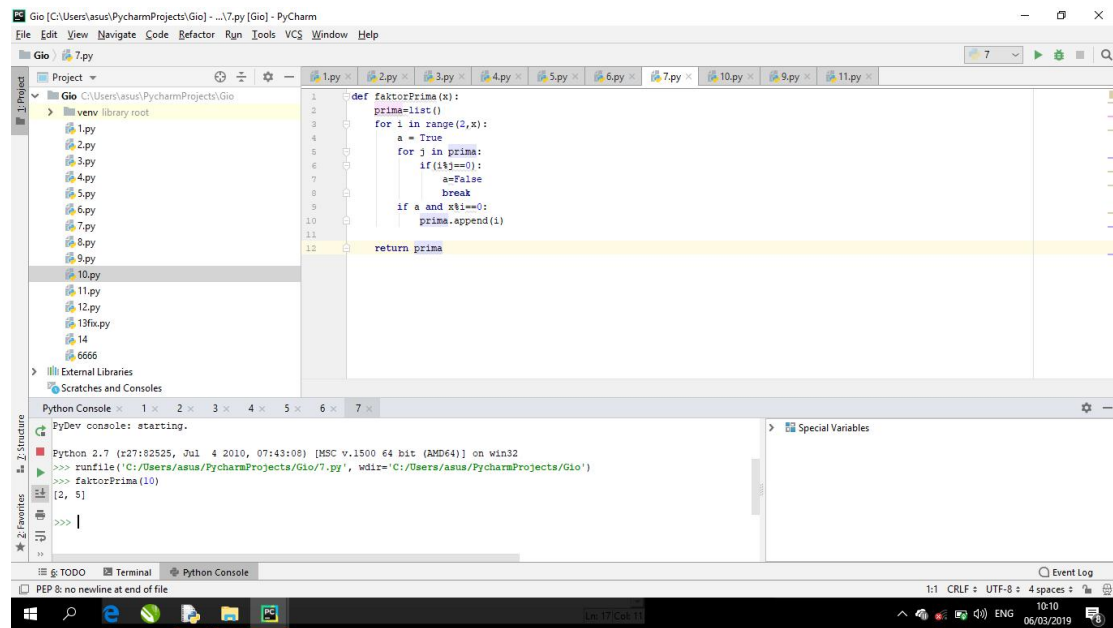
5.



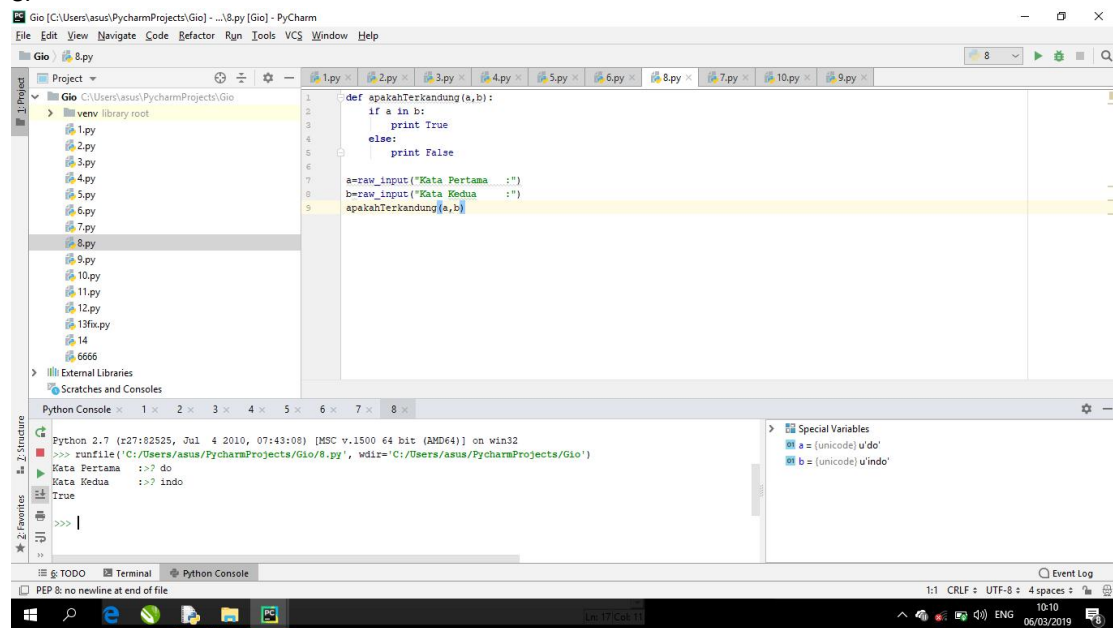
6.



7.



8.



9.

PyCharm IDE window titled "Gio [C:\Users\asus\PycharmProjects\Gio] - ...9.py [Gio] - PyCharm". The menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The toolbar shows icons for Run, Debug, and Search. The Project tool window on the left shows a project named "Gio" with a subdirectory "venv" containing a "library root" and several Python files (1.py to 14.py, 6666). The main editor displays the content of 9.py:

```

1 for i in range(1,100):
2     if i%3==0 and i%5==0:
3         print "Python UMS"
4
5     elif i%3==0:
6         print "Python"
7
8     elif i%5==0:
9         print "UMS"
10
11 else:
12     print i

```

The Run tool window at the bottom shows the execution command: `C:\Users\asus\PycharmProjects\Gio\venv\Scripts\python.exe C:\Users\asus\PycharmProjects\Gio\9.py`. The status bar at the bottom indicates the file encoding is UTF-8 and the line length is 12:16.

10.

PyCharm IDE window titled "Gio [C:\Users\asus\PycharmProjects\Gio] - ...10.py [Gio] - PyCharm". The menu bar and toolbar are the same as in the previous screenshot. The Project tool window shows the same project structure. The main editor displays the content of 10.py:

```

1 from math import sqrt as sq
2
3 def selesaikanABC(a,b,c):
4     a=float(a)
5     b=float(b)
6     c=float(c)
7     D=(b**2)-(4*a*c)
8     if D<0:
9         return 'determinan negatif'
10    else:
11        return 'determinan positif'

```

The Python Console at the bottom shows the following interaction:

```

PyDev console: starting.
Python 2.7 (r27:82525, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/10.py', wdir='C:/Users/asus/PycharmProjects/Gio')
>>> selesaikanABC(1,2,3)
'determinan negatif'
>>>

```

The Special Variables window on the right shows the variable `sq` as `[builtin_function_or_method] <built-in function sqrt>`. The status bar at the bottom indicates the file encoding is UTF-8 and the line length is 1:1.

11.

PyCharm IDE interface showing file 11.py. The code defines a function `apakahKabisat(x)` that checks if a year is a leap year based on divisibility by 100 and 400. The Python Console shows the function being called with 2300 (returns False) and 2400 (returns True).

```

1 def apakahKabisat(x):
2     if x%100==0 and x%400==0:
3         return True
4     elif x%100==0:
5         return False
6     elif x%4==0:
7         return True
8     else:
9         return False

```

Python Console output:

```

Python 3.7 (tags:82825, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/11.py', wdir='C:/Users/asus/PycharmProjects/Gio')
>>> apakahKabisat(2300)
False
>>> apakahKabisat(2400)
True
>>> |

```

12.

PyCharm IDE interface showing file 12.py. The code defines a function `permainan()` that generates a random number and asks the user to guess it. The Python Console shows the user's input and the program's feedback.

```

1 import random
2 def permainan():
3     a=random.randrange(0, 100)
4     while(True):
5         b=int(input("masukan angka: "))
6         if(b>a):
7             print("terlalu besar, coba lagi")
8         elif(b<a):
9             print("terlalu kecil, coba lagi")
10        else:
11            print("benar")
12            break
13    permainan()

```

Python Console output:

```

>>> masukan angka: >> 50
terlalu kecil, coba lagi
>>> masukan angka: >> 70
terlalu besar, coba lagi
>>> masukan angka: >> 60
benar
>>>

```

13.

```

1 def katakan(a):
2     x="0":"","1":"Se","2":"Dua ","3":"Tiga ","4":"Empat ","5":"Lima ","6":"Enam ","7":"Tujuh ","8":"Delapan ","9":"Sembilan "
3     y=(-1:"",-2:"puluh",-3:"ratus",-4:"ribu",-5:"puluh",-6:"ratus",-7:"juta",-8:"puluhjuta ")
4     m = [-1:"",-2:"puluh",-3:"ratus",-4:"ribu",-5:"puluh",-6:"ratus",-7:"juta",-8:"puluh "]
5     b=str(a)
6     c=""
7     if len(str(a))==9 and str(a)[1]>0:
8         i = -1
9         while i >= -len(b):
10             c=x[b[i]]+m[i]+c
11             i-=1
12             return c
13     else:
14         i = -1
15         while i >= -len(b):
16             c = x[b[i]] + y[i] + c
17             i -= 1
18         return c

```

```

Python Console
PyDev console: starting.
Python 2.7 (x27:82525, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/13fix.py', wdir='C:/Users/asus/PycharmProjects/Gio')
>>> katakan(33550889)
'Tiga puluh Tiga juta Lima ratus Lima puluh ribu Lima ratus Delapan puluh Sembilan '
>>> |

```

14.

```

1 def formatRupiah(a):
2     a=str(a)
3     c=""
4     i = -1
5     while i >= -len(a):
6         if ((i+1)%3==0 and (i+1)!=0):
7             c=","+c
8             a=a[1]+c
9             i-=1
10        return "Rp "+c

```

```

Python Console
PyDev console: starting.
Python 2.7 (x27:82525, Jul 4 2010, 07:43:08) [MSC v.1500 64 bit (AMD64)] on win32
>>> runfile('C:/Users/asus/PycharmProjects/Gio/14', wdir='C:/Users/asus/PycharmProjects/Gio')
>>> formatRupiah(30000000)
'Rp 30.000.000'
>>> |

```