API Documentation

API Documentation

June 23, 2015

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Variables Package pylottosimu

1 Package pylottosimu

pyLottoSimu,

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1.1 Modules

- dialog (Section 2, p. 4)
 - lottosystem: pyLottoSimu (Section 3, p. 5)
 - show_drawing: pyLottoSimu (Section 4, p. 10)
- lottokugeln_rc (Section 5, p. 15)
- lottokugeln_rc3 (Section 6, p. 16)
- lottokugeln_rc3_qt5 (Section 7, p. 17)
- lottosystem: pyLottoSimu (Section 8, p. 18)
- pylotto: The signals for the GUI (Section 9, p. 33)
- test_drawlotto: pyLottoSimu (Section 10, p. 51)
- **test_pep8**: pyLottoSimu (Section 11, p. 53)
- test_show_drawing: pyLottoSimu (Section 12, p. 55)

Name	Description
package	Value: None

2 Package pylottosimu.dialog

2.1 Modules

• lottosystem: pyLottoSimu (Section 3, p. 5)

• show_drawing: pyLottoSimu (Section 4, p. 10)

Name	Description
package	Value: None

3 Module pylottosimu.dialog.lottosystem

pyLottoSimu

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3.1 Functions

gui(arguments, sysdat)

Open the GUI of the LottoSettings Dialog

Parameters

arguments: language, see in folder translate

(type=string)

Return Value

none

Name	Description
package	Value: 'pylottosimu.dialog'

${\bf 3.3 \quad Class\ LottoSettingsDialog}$

object —	
sip.simplewrapper —	
sip.wrapper —	
PyQt5.QtCore.QObject —	
object —	
sip.simplewrapper —	
PyQt5.QtGui.QPaintDevice —	
PyQt5.QtWidgets.QWidget —	
${\bf PyQt5.QtWidgets.QDialog}$	
	pylottosimu.dialog.lottosystem.LottoSettingsDialog

The GUI of Settings.

3.3.1 Methods

2120010 do
init(self, sysdat, parent=None)
Inital user interface and slots
Return Value
none
Overrides: objectinit
getValues(sysdat, parent=None)
getValues
$\mathbf{init}(\mathit{self})$
Initial variable
Return Value
none
$sep_addit_numbers(self)$
sep_addit_numbers(seg)
setvalues(self)
Set Values
DOV YOULOO

values(self)	
Values	
with addit(ealf)	

Inherited from PyQt5.QtWidgets.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

$Inherited\ from\ PyQt5. QtWidgets. QWidget$

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), children-Region(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), get-ContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grab-Shortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightFor-Width(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), map-ToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouse-DoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextIn-FocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise (), rect(), redirected(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(),

setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), set-Locale(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindow-Role(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicro-Focus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), window-Icon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

$Inherited\ from\ PyQt5. QtCore. QObject$

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

$Inherited\ from\ PyQt5. QtGui. QPaintDevice$

colorCount(), depth(), devicePixelRatio(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

$Inherited\ from\ sip.simple wrapper$

___new___()

Inherited from object

 $\label{lem:condition} $$__{\text{delattr}}(), __{\text{format}}(), __{\text{getattribute}}(), __{\text{hash}}(), __{\text{reduce}}(), __{\text{reduce}}(), __{\text{sizeof}}(), __{\text{str}}(), __{\text{subclasshook}}()$

3.3.2 Properties

Name	Description
Inherited from object	
class	

3.3.3 Class Variables

Name	Description
Inherited from PyQt5.QtWie	$\overline{lgets.QDialog}$
Accepted, Rejected	
Inherited from PyQt5.QtWie	lgets.QWidget
DrawChildren, DrawWindow	Background, IgnoreMask
Inherited from PyQt5.QtCor	e.QObject
staticMetaObject	
Inherited from PyQt5.QtGui	.QPaintDevice
PdmDepth, PdmDevicePixel	Ratio, PdmDpiX, PdmDpiY, PdmHeight,
PdmHeightMM, PdmNumCo	olors, PdmPhysicalDpiX, PdmPhysicalDpiY,
PdmWidth, PdmWidthMM	

3.4 Class lottosystemdata

3.4.1 Methods

___init___(self, name='Lotto DE', max_draw=49, draw_numbers=6, with_addit=False, addit_numbers=0, sep_addit_numbers=False, max_addit=0)

writetofile(self)

4 Module pylottosimu.dialog.show_drawing

pyLottoSimu

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This file is part of pyLottoSimu.

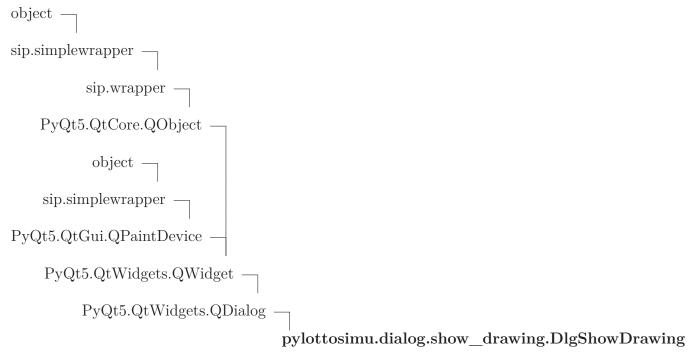
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Name	Description
package	Value: 'pylottosimu.dialog'

4.2 Class DlgShowDrawing



Show the numbers in a dialog box

4.2.1 Methods

```
___init___(self, ballnumbers, highestnumber, bonusnumbers=False,
highestbonus=False)

x.__init__(...) initializes x; see help(type(x)) for signature

Parameters
ballnumbers: the number of draw
(type=tuple of int)
highestnumber: the number of the PushButtons
(type=int)

Return Value
none
Overrides: object.__init___
```

$Inherited\ from\ PyQt5. QtWidgets. QDialog$

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(),

finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

$Inherited\ from\ PyQt5. QtWidgets. QWidget$

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), children-Region(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), get-ContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grab-Shortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightFor-Width(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), map-ToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), mumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouse-DoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextIn-FocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise (), rect(), redirected(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), set-Locale(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(),

 $set Window Modality(), \ set Window Modified(), \ set Window Opacity(), \ set Window Role(), set Window State(), set Window Title(), shared Painter(), show(), show Full Screen(), show Maximized(), show Minimized(), show Normal(), size(), size Increment(), size Policy(), stack Under(), status Tip(), style(), style Sheet(), tablet Event(), test Attribute(), tool Tip(), tool Tip Duration(), under Mouse(), ungrab Gesture(), unset Cursor(), unset Layout Direction(), unset Locale(), update(), update Geometry(), update Micro-Focus(), updates Enabled(), visible Region(), whats This(), wheel Event(), width(), win Id(), window(), window File Path(), window Flags(), window Handle(), window Icon(), window Icon Changed(), window Icon Text(), window Icon Text Changed(), window Modality(), window Opacity(), window Role(), window State(), window Title(), window Title Changed(), window Type(), x(), y()$

$Inherited\ from\ PyQt5. QtCore.\ QObject$

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

$Inherited\ from\ PyQt5. QtGui. QPaintDevice$

colorCount(), depth(), devicePixelRatio(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

$Inherited\ from\ sip.simple wrapper$

new	_()
-----	-----

Inherited from object

$\underline{}$ delattr_	(),	fo	$\operatorname{rmat}_{}$	_(),	_getattrib	ute	_(),has	sh(),r	educe_	(),
reduce_	_ex	_(), _	_repr_	(), _	setattr_	(), _	sizeof_	_(), _	str	(),	_sub-
classhook	()										

4.2.2 Properties

Name	Description
Inherited from object	
class	

4.2.3 Class Variables

Name	Description
Inherited from PyQt5.QtWid	$\overline{lgets.QDialog}$
Accepted, Rejected	
Inherited from PyQt5.QtWia	lgets.QWidget
DrawChildren, DrawWindow	Background, IgnoreMask
Inherited from PyQt5.QtCor	e.QObject
staticMetaObject	
Inherited from PyQt5.QtGui	.QPaintDevice
PdmDepth, PdmDevicePixel	Ratio, PdmDpiX, PdmDpiY, PdmHeight,
PdmHeightMM, PdmNumCo	olors, PdmPhysicalDpiX, PdmPhysicalDpiY,
PdmWidth, PdmWidthMM	

5 Module pylottosimu.lottokugeln_rc

5.1 Functions

qInitResources()	
qCleanupResources()	

Name	Description	
qt_resource_data	Value:	
	'\x00\x01\x94\x94\x89PNG\r\n\x1a\n\x00\x0	$0\x00\rIHDR\x00$.
qt_resource_name	Value:	
	'\x00\x0e\x00\xc9\x8e\xe7\x001\x00o\x00t\	x00t\x00o\x00k\x.
qt_resource_struct	Value:	
	'\x00\x00\x00\x00\x00\x02\x00\x00\x01	\x00\x00\x00\x01.
package	Value: 'pylottosimu'	

6 Module pylottosimu.lottokugeln_rc3

6.1 Functions

qInitResources()	
qCleanupResources()	

Name	Description
qt_resource_data	Value:
qt_resource_name	Value:
qt_resource_struct	Value:

7 Module pylottosimu.lottokugeln_rc3_qt5

7.1 Functions

qInitResources()	
qCleanupResources()	

Name	Description	
qt_resource_data	Value:	
	'\x00\x01\x94\x94\x89PNG\r\n\x1a\n\x00\x0	$0\x00\rIHDR\x00$.
qt_resource_name	Value:	
	'\x00\x0e\x00\xc9\x8e\xe7\x001\x00o\x00t\	x00t\x00o\x00k\x.
qt_resource_struct	Value:	
	'\x00\x00\x00\x00\x00\x02\x00\x00\x01	\x00\x00\x00\x01.
package	Value: 'pylottosimu'	

8 Module pylottosimu.lottosystem

pyLottoSimu

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8.1 Variables

Name	Description
package	Value: 'pylottosimu'

8.2 Class str

str(object=") -> string

Return a nice string representation of the object. If the argument is a string, the return value is the same object.

8.2.1 Methods

$\boxed{} \mathbf{add} \underline{} (x, y)$	
x+y	

$\underline{\hspace{1cm}}$ contains $\underline{\hspace{1cm}}$ (x, y)
y in x
$\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x==y
format(S, format_spec)
Return a formatted version of S as described by format_spec.
Return Value
string
Overrides: objectformat
$\boxed{ } \mathbf{ge} (x, y)$
x>=y
getattribute()
xgetattribute('name') <==> x.name
Overrides: objectgetattribute
$\boxed{\qquad} \mathbf{getitem} \underline{\qquad} (x, y)$
x[y]
$\boxed{ __getnewargs}__()$
$\boxed{\qquad} \mathbf{getslice} \boxed{\qquad} (x, i, j)$
$\mathbf{x}[\mathrm{i:j}]$
Use of negative indices is not supported.
$gt_{\underline{}}(x, y)$
x>y
hash(x)
$\frac{1}{\operatorname{hash}(\mathbf{x})}$
Overrides: objecthash

$\boxed{ \underline{\hspace{1cm}} \mathbf{le}\underline{\hspace{1cm}} (x, y) }$
$\overline{x \leftarrow y}$
$\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
len(x)
$\boxed{ \underline{} \mathbf{lt} \underline{} (x, y) }$
x <y< td=""></y<>
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
x%y
X/0y
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x*n
$\underline{\qquad} \mathbf{ne} \underline{\qquad} (x, y)$
x!=y
$\boxed{ \underline{\hspace{1cm}} \mathbf{new} \underline{\hspace{1cm}} (T, S,)}$
Return Value
a new object with type S, a subtype of T
Overrides: objectnew
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
$\operatorname{repr}(x)$
Overrides: objectrepr
O TOTTIGOS. ODJOONTOPI
$\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
y%x
$\underline{\qquad}$ rmul $\underline{\qquad}(x, n)$
n*x

sizeof (S

size of object in memory, in bytes

Return Value

size of S in memory, in bytes

Overrides: object.___sizeof__

str(x)					
${\operatorname{str}(x)}$					
Overrides: object.	str				

capitalize(S)

Return a copy of the string S with only its first character capitalized.

Return Value

string

center(S, width, fillchar=...)

Return S centered in a string of length width. Padding is done using the specified fill character (default is a space)

Return Value

string

$\mathbf{count}(S, sub, start = \dots, end = \dots)$

Return the number of non-overlapping occurrences of substring sub in string S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return Value

int

decode(S, encoding=..., errors=...)

Decodes S using the codec registered for encoding. encoding defaults to the default encoding. errors may be given to set a different error handling scheme. Default is 'strict' meaning that encoding errors raise a UnicodeDecodeError. Other possible values are 'ignore' and 'replace' as well as any other name registered with codecs.register_error that is able to handle UnicodeDecodeErrors.

Return Value

object

encode(S, encoding=..., errors=...)

Encodes S using the codec registered for encoding. encoding defaults to the default encoding. errors may be given to set a different error handling scheme. Default is 'strict' meaning that encoding errors raise a UnicodeEncodeError. Other possible values are 'ignore', 'replace' and 'xmlcharrefreplace' as well as any other name registered with codecs.register_error that is able to handle UnicodeEncodeErrors.

Return Value

object

endswith(S, suffix, start=..., end=...)

Return True if S ends with the specified suffix, False otherwise. With optional start, test S beginning at that position. With optional end, stop comparing S at that position. suffix can also be a tuple of strings to try.

Return Value

bool

expandtabs(S, tabsize=...)

Return a copy of S where all tab characters are expanded using spaces. If tabsize is not given, a tab size of 8 characters is assumed.

Return Value

string

```
find(S, sub, start = \dots, end = \dots)
```

Return the lowest index in S where substring sub is found, such that sub is contained within S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return -1 on failure.

Return Value

int

format(S, *args, **kwargs)

Return a formatted version of S, using substitutions from args and kwargs. The substitutions are identified by braces ('{' and '}').

Return Value

string

$index(S, sub, start = \dots, end = \dots)$

Like S.find() but raise ValueError when the substring is not found.

Return Value

int

isalnum(S)

Return True if all characters in S are alphanumeric and there is at least one character in S, False otherwise.

Return Value

bool

isalpha(S)

Return True if all characters in S are alphabetic and there is at least one character in S, False otherwise.

Return Value

bool

isdigit(S)

Return True if all characters in S are digits and there is at least one character in S, False otherwise.

Return Value

bool

islower(S)

Return True if all cased characters in S are lowercase and there is at least one cased character in S, False otherwise.

Return Value

bool

isspace(S)

Return True if all characters in S are whitespace and there is at least one character in S, False otherwise.

Return Value

bool

istitle(S)

Return True if S is a titlecased string and there is at least one character in S, i.e. uppercase characters may only follow uncased characters and lowercase characters only cased ones. Return False otherwise.

Return Value

bool

isupper(S)

Return True if all cased characters in S are uppercase and there is at least one cased character in S, False otherwise.

Return Value

bool

$\mathbf{join}(S, iterable)$

Return a string which is the concatenation of the strings in the iterable. The separator between elements is S.

Return Value

string

$\mathbf{ljust}(S, width, fillchar = \dots)$

Return S left-justified in a string of length width. Padding is done using the specified fill character (default is a space).

Return Value

string

lower(S)

Return a copy of the string S converted to lowercase.

Return Value

string

lstrip(S, chars=...)

Return a copy of the string S with leading whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

$\mathbf{partition}(S, sep)$

Search for the separator sep in S, and return the part before it, the separator itself, and the part after it. If the separator is not found, return S and two empty strings.

Return Value

(head, sep, tail)

replace(S, old, new, count = ...)

Return a copy of string S with all occurrences of substring old replaced by new. If the optional argument count is given, only the first count occurrences are replaced.

Return Value

string

```
\mathbf{rfind}(S, sub, start = \dots, end = \dots)
```

Return the highest index in S where substring sub is found, such that sub is contained within S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return -1 on failure.

Return Value

int

```
\mathbf{rindex}(S, sub, start = \dots, end = \dots)
```

Like S.rfind() but raise ValueError when the substring is not found.

Return Value

int

rjust(S, width, fillchar = ...)

Return S right-justified in a string of length width. Padding is done using the specified fill character (default is a space)

Return Value

string

rpartition(S, sep)

Search for the separator sep in S, starting at the end of S, and return the part before it, the separator itself, and the part after it. If the separator is not found, return two empty strings and S.

Return Value

(head, sep, tail)

$\mathbf{rsplit}(S, sep = \dots, maxsplit = \dots)$

Return a list of the words in the string S, using sep as the delimiter string, starting at the end of the string and working to the front. If maxsplit is given, at most maxsplit splits are done. If sep is not specified or is None, any whitespace string is a separator.

Return Value

list of strings

$\mathbf{rstrip}(S, chars=...)$

Return a copy of the string S with trailing whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

$\mathbf{split}(S, sep = \dots, maxsplit = \dots)$

Return a list of the words in the string S, using sep as the delimiter string. If maxsplit is given, at most maxsplit splits are done. If sep is not specified or is None, any whitespace string is a separator and empty strings are removed from the result.

Return Value

list of strings

splitlines(S, keepends=False)

Return a list of the lines in S, breaking at line boundaries. Line breaks are not included in the resulting list unless keepends is given and true.

Return Value

list of strings

startswith(S, prefix, start=..., end=...)

Return True if S starts with the specified prefix, False otherwise. With optional start, test S beginning at that position. With optional end, stop comparing S at that position. prefix can also be a tuple of strings to try.

Return Value

bool

strip(S, chars=...)

Return a copy of the string S with leading and trailing whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

swapcase(S)

Return a copy of the string S with uppercase characters converted to lowercase and vice versa.

Return Value

string

$\mathbf{title}(S)$

Return a titlecased version of S, i.e. words start with uppercase characters, all remaining cased characters have lowercase.

Return Value

string

translate(S, table, deletechars=...)

Return a copy of the string S, where all characters occurring in the optional argument deletechars are removed, and the remaining characters have been mapped through the given translation table, which must be a string of length 256 or None. If the table argument is None, no translation is applied and the operation simply removes the characters in deletechars.

Return Value

string

$\mathbf{upper}(S)$
Return a copy of the string S converted to uppercase.
Return Value
string

$\mathbf{zfill}(S, width)$

Pad a numeric string S with zeros on the left, to fill a field of the specified width. The string S is never truncated.

Return Value

string

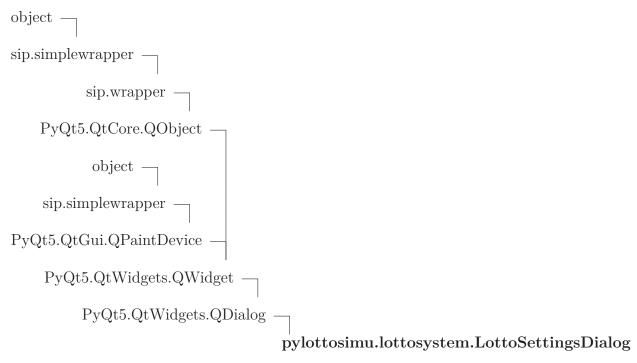
Inherited from object

delattr(),	init	_(),	_reduce_	_(), _	_reduce_	_ex	_(),	$_$ setattr $_$	(),
subclasshook	_()								

8.2.2 Properties

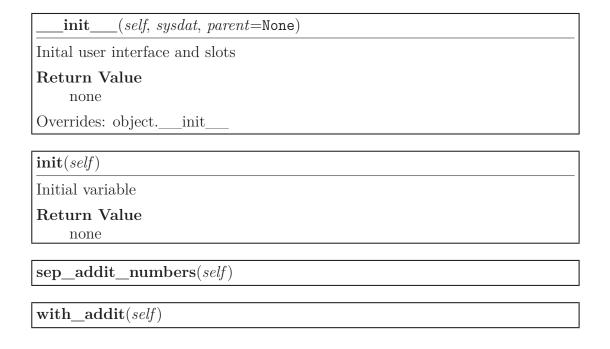
Name	Description
Inherited from object	
class	

8.3 Class LottoSettingsDialog



The GUI of Settings.

8.3.1 Methods



setvalues(self)	
Set Values	
$\mathbf{values}(self)$	
Values	
getValues(sysdat, parent=None)	
getValues	

Inherited from PyQt5.QtWidgets.QDialog

accept(), accepted(), closeEvent(), contextMenuEvent(), done(), eventFilter(), exec_(), finished(), isSizeGripEnabled(), keyPressEvent(), minimumSizeHint(), open(), reject(), rejected(), resizeEvent(), result(), setModal(), setResult(), setSizeGripEnabled(), setVisible(), showEvent(), sizeHint()

$Inherited\ from\ PyQt5. QtWidgets. QWidget$

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), children-Region(), clearFocus(), clearMask(), close(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(), customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), event(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), get-ContentsMargins(), grab(), grabGesture(), grabKeyboard(), grabMouse(), grab-Shortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeightFor-Width(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyReleaseEvent(), keyboardGrabber(), layout(), layoutDirection(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), map-ToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), mumWidth(), metric(), minimumHeight(), minimumSize(), minimumWidth(), mouse-DoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextIn-FocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise (), rect(), redirected(), releaseKeyboard(), releaseMouse(), releaseShortcut(),

removeAction(), render(), repaint(), resize(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), set-Locale(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), setToolTipDuration(), setUpdatesEnabled(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowModality(), setWindowModified(), setWindowOpacity(), setWindow-Role(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicro-Focus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), window-Icon(), windowIconChanged(), windowIconText(), windowIconTextChanged(), windowModality(), windowOpacity(), windowRole(), windowState(), windowTitle(), windowTitleChanged(), windowType(), x(), y()

$Inherited\ from\ PyQt5. QtCore. QObject$

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEventFilter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

$Inherited\ from\ PyQt5. QtGui. QPaintDevice$

colorCount(), depth(), devicePixelRatio(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

$Inherited\ from\ sip.simple wrapper$

___new___()

Inherited from object

$\underline{\hspace{1cm}}$ delattr $\underline{\hspace{1cm}}$	_(),fc	ormat	_(),	_getattrib	ute	(),has	h()),r	educe_	(),
reduce_e	x(), _	repr_	(),	$_$ setattr $_$	(), _	sizeof	_(), _	_str_	(),	_sub-
classhook	.()									

8.3.2 Properties

Name	Description
Inherited from object	
class	

8.3.3 Class Variables

Name	Description
Inherited from PyQt5.QtWid	$\overline{lgets.QDialog}$
Accepted, Rejected	
Inherited from PyQt5.QtWid	lgets. QWidget
DrawChildren, DrawWindow	Background, IgnoreMask
Inherited from PyQt5.QtCor	e.QObject
staticMetaObject	
Inherited from PyQt5.QtGui	.QPaintDevice
PdmDepth, PdmDevicePixel	Ratio, PdmDpiX, PdmDpiY, PdmHeight,
PdmHeightMM, PdmNumCo	olors, PdmPhysicalDpiX, PdmPhysicalDpiY,
PdmWidth, PdmWidthMM	

8.4 Class lottosystemdata

8.4.1 Methods

___init___(self, name='Lotto DE', max_draw=49, draw_numbers=6, with_addit=False, addit_numbers=0, sep_addit_numbers=False, max_addit=0)

 $\mathbf{writetofile}(self)$

9 Module pylottosimu.pylotto

The signals for the GUI

9.1 Variables

Name	Description
doc	Value: "The signals for the GUI"
package	Value: 'pylottosimu'

9.2 Class str

Return a nice string representation of the object. If the argument is a string, the return value is the same object.

9.2.1 Methods

$$\frac{\underline{\underline{}} add \underline{\underline{}} (x, y)}{x+y}$$

$$\boxed{\underbrace{\underline{-\mathbf{eq}}_{(x, y)}}_{\mathbf{x} = = \mathbf{y}}}$$

format(S, format_spec)
Return a formatted version of S as described by format_spec.
Return Value string
Overrides: objectformat
$\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x>=y
$\boxed{ __getattribute__()}$
xgetattribute('name') <==> x.name
Overrides: objectgetattribute
$ \underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
[x[y]]
$\boxed{ \ \ } \texttt{getnewargs} \underline{ } ()$
geome wargs()
$\boxed{\qquad} \mathbf{getslice} (x, i, j)$
$\mathbf{x}[i:j]$
Use of negative indices is not supported.
$\boxed{ \qquad \mathbf{gt}_{}(x, y)}$
x>y
A y
hash(x)
$\frac{1}{\operatorname{hash}(\mathbf{x})}$
Overrides: objecthash
$ \underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
$x \le y$
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
${\operatorname{len}(\mathbf{x})}$

$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x <y< td=""></y<>
$\underline{\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x%y
$\boxed{\underline{}$ $mul\underline{}$ (x, n)
x*n
$\underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
x!=y
$ \underline{\qquad} \mathbf{new} \underline{\qquad} (T, S, \ldots) $
Return Value a new object with type S, a subtype of T
Overrides: objectnew
o verrideer exjectiev
repr(x)
repr(x)
Overrides: objectrepr
1 (
$ \underline{\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
y%x
$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$
n*x
$__sizeof__(S)$
size of object in memory, in bytes
Return Value
size of S in memory, in bytes
Overrides: objectsizeof
$\underline{}$ str $\underline{}$ (x)
$\frac{str}{str(x)}$
Overrides: objectstr

capitalize(S)

Return a copy of the string S with only its first character capitalized.

Return Value

string

center(S, width, fillchar = ...)

Return S centered in a string of length width. Padding is done using the specified fill character (default is a space)

Return Value

string

$\mathbf{count}(S, sub, start = \dots, end = \dots)$

Return the number of non-overlapping occurrences of substring sub in string S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return Value

int

$\mathbf{decode}(S, encoding = \dots, errors = \dots)$

Decodes S using the codec registered for encoding. encoding defaults to the default encoding. errors may be given to set a different error handling scheme. Default is 'strict' meaning that encoding errors raise a UnicodeDecodeError. Other possible values are 'ignore' and 'replace' as well as any other name registered with codecs.register_error that is able to handle UnicodeDecodeErrors.

Return Value

object

encode(S, encoding=..., errors=...)

Encodes S using the codec registered for encoding. encoding defaults to the default encoding. errors may be given to set a different error handling scheme. Default is 'strict' meaning that encoding errors raise a UnicodeEncodeError. Other possible values are 'ignore', 'replace' and 'xmlcharrefreplace' as well as any other name registered with codecs.register_error that is able to handle UnicodeEncodeErrors.

Return Value

object

endswith(S, suffix, start=..., end=...)

Return True if S ends with the specified suffix, False otherwise. With optional start, test S beginning at that position. With optional end, stop comparing S at that position. suffix can also be a tuple of strings to try.

Return Value

bool

expandtabs(S, tabsize=...)

Return a copy of S where all tab characters are expanded using spaces. If tabsize is not given, a tab size of 8 characters is assumed.

Return Value

string

```
find(S, sub, start = \dots, end = \dots)
```

Return the lowest index in S where substring sub is found, such that sub is contained within S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return -1 on failure.

Return Value

int

format(S, *args, **kwargs)

Return a formatted version of S, using substitutions from args and kwargs. The substitutions are identified by braces ('{' and '}').

Return Value

string

```
index(S, sub, start = \dots, end = \dots)
```

Like S.find() but raise ValueError when the substring is not found.

Return Value

int

isalnum(S)

Return True if all characters in S are alphanumeric and there is at least one character in S, False otherwise.

Return Value

bool

isalpha(S)

Return True if all characters in S are alphabetic and there is at least one character in S, False otherwise.

Return Value

bool

isdigit(S)

Return True if all characters in S are digits and there is at least one character in S, False otherwise.

Return Value

bool

islower(S)

Return True if all cased characters in S are lowercase and there is at least one cased character in S, False otherwise.

Return Value

bool

isspace(S)

Return True if all characters in S are whitespace and there is at least one character in S, False otherwise.

Return Value

bool

istitle(S)

Return True if S is a titlecased string and there is at least one character in S, i.e. uppercase characters may only follow uncased characters and lowercase characters only cased ones. Return False otherwise.

Return Value

bool

isupper(S)

Return True if all cased characters in S are uppercase and there is at least one cased character in S, False otherwise.

Return Value

bool

$\mathbf{join}(S, iterable)$

Return a string which is the concatenation of the strings in the iterable. The separator between elements is S.

Return Value

string

ljust(S, width, fillchar=...)

Return S left-justified in a string of length width. Padding is done using the specified fill character (default is a space).

Return Value

string

$\mathbf{lower}(S)$

Return a copy of the string S converted to lowercase.

Return Value

string

lstrip(S, chars=...)

Return a copy of the string S with leading whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

partition(S, sep)

Search for the separator sep in S, and return the part before it, the separator itself, and the part after it. If the separator is not found, return S and two empty strings.

Return Value

(head, sep, tail)

replace(S, old, new, count = ...)

Return a copy of string S with all occurrences of substring old replaced by new. If the optional argument count is given, only the first count occurrences are replaced.

Return Value

string

```
\mathbf{rfind}(S, sub, start = \dots, end = \dots)
```

Return the highest index in S where substring sub is found, such that sub is contained within S[start:end]. Optional arguments start and end are interpreted as in slice notation.

Return -1 on failure.

Return Value

int

```
\mathbf{rindex}(S, sub, start = \dots, end = \dots)
```

Like S.rfind() but raise ValueError when the substring is not found.

Return Value

int

rjust(S, width, fillchar = ...)

Return S right-justified in a string of length width. Padding is done using the specified fill character (default is a space)

Return Value

string

rpartition(S, sep)

Search for the separator sep in S, starting at the end of S, and return the part before it, the separator itself, and the part after it. If the separator is not found, return two empty strings and S.

Return Value

(head, sep, tail)

```
\mathbf{rsplit}(S, sep=\dots, maxsplit=\dots)
```

Return a list of the words in the string S, using sep as the delimiter string, starting at the end of the string and working to the front. If maxsplit is given, at most maxsplit splits are done. If sep is not specified or is None, any whitespace string is a separator.

Return Value

list of strings

$\mathbf{rstrip}(S, chars=...)$

Return a copy of the string S with trailing whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

$\mathbf{split}(S, sep=\dots, maxsplit=\dots)$

Return a list of the words in the string S, using sep as the delimiter string. If maxsplit is given, at most maxsplit splits are done. If sep is not specified or is None, any whitespace string is a separator and empty strings are removed from the result.

Return Value

list of strings

splitlines(S, keepends=False)

Return a list of the lines in S, breaking at line boundaries. Line breaks are not included in the resulting list unless keepends is given and true.

Return Value

list of strings

startswith(S, prefix, start=..., end=...)

Return True if S starts with the specified prefix, False otherwise. With optional start, test S beginning at that position. With optional end, stop comparing S at that position. prefix can also be a tuple of strings to try.

Return Value

bool

strip(S, chars=...)

Return a copy of the string S with leading and trailing whitespace removed. If chars is given and not None, remove characters in chars instead. If chars is unicode, S will be converted to unicode before stripping

Return Value

string or unicode

swapcase(S)

Return a copy of the string S with uppercase characters converted to lowercase and vice versa.

Return Value

string

$\mathbf{title}(S)$

Return a titlecased version of S, i.e. words start with uppercase characters, all remaining cased characters have lowercase.

Return Value

string

translate(S, table, deletechars=...)

Return a copy of the string S, where all characters occurring in the optional argument deletechars are removed, and the remaining characters have been mapped through the given translation table, which must be a string of length 256 or None. If the table argument is None, no translation is applied and the operation simply removes the characters in deletechars.

Return Value

string

$\mathbf{upper}(S)$

Return a copy of the string S converted to uppercase.

Return Value

string

$\mathbf{zfill}(S, width)$

Pad a numeric string S with zeros on the left, to fill a field of the specified width. The string S is never truncated.

Return Value

string

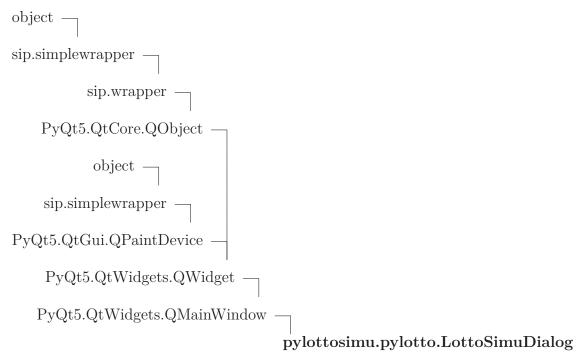
Inherited from object

delattr(),	init()	,reduce_	(),r	reduce_ex	_(),	$_{ m setattr}\{ m }$	_():
$__subclasshook__$	_()						

9.2.2 Properties

Name	Description
Inherited from object	
class	

9.3 Class LottoSimuDialog



The GUI and programm of the pyLottoSimu.

9.3.1 Methods

init(self)
Inital user interface and slots
Return Value
none
Overrides: objectinit

ontimer(self)

Start time to show a number.

Return Value

none

show next number(self)

Simulation of the draw and show the next Number on the Screen.

Return Value

none

onbtn_draw_overview(self)

show dialog of the draw

Return Value

none

$\mathbf{onsystem}(self)$

show dialog of the draw

Return Value

none

onbtn_start(self)

Start simulation with the first drawing init timer with the valve from the Scrollbar the next drawing starts with the timer event.

Return Value

none

$action_lottosim(self)$

Changing the layout for simulation or generation Move the textedit and change the visible.

Return Value

none

onrandom numbers generator(self)

Show the output from the random number generator.

Return Value

none

${\color{red}\textbf{onclean_output_text}(self)}$	
Clean the output text	
Return Value	
none	

oninfo(self)
info message box
Return Value
none

Open website

Return Value
none

onclose(self)
Close the GUI
Return Value
none

$Inherited\ from\ PyQt5. QtWidgets. QMainWindow$

addDockWidget(), addToolBar(), addToolBarBreak(), centralWidget(), contextMenuEvent(), corner(), createPopupMenu(), dockOptions(), dockWidgetArea(), documentMode(), event(), iconSize(), iconSizeChanged(), insertToolBar(), insertToolBarBreak(), isAnimated(), isDockNestingEnabled(), isSeparator(), menuBar(), menuWidget(), removeDockWidget(), removeToolBar(), removeToolBarBreak(), restoreDockWidget(), restoreState(), saveState(), setAnimated(), setCentralWidget(), setCorner(), setDockNestingEnabled(), setDockOptions(), setDocumentMode(), setIconSize(), setMenuBar(), setMenuWidget(), setStatusBar(), setTabPosition(), setTabShape(), setToolButtonStyle(), setUnifiedTitleAndToolBarOnMac(), splitDockWidget(), statusBar(), tabPosition(), tabShape(), tabifiedDockWidgets(), tabifyDockWidget(), takeCentralWidget(), toolBarArea(), toolBarBreak(), toolButtonStyle(), toolButtonStyleChanged(), unifiedTitleAndToolBarOnMac()

Inherited from PyQt5.QtWidgets.QWidget

acceptDrops(), accessibleDescription(), accessibleName(), actionEvent(), actions(), activateWindow(), addAction(), addActions(), adjustSize(), autoFillBackground(), backgroundRole(), baseSize(), changeEvent(), childAt(), childrenRect(), childrenRegion(), clearFocus(), clearMask(), close(), closeEvent(), contentsMargins(), contentsRect(), contextMenuPolicy(), create(), createWindowContainer(), cursor(),

customContextMenuRequested(), destroy(), devType(), dragEnterEvent(), dragLeaveEvent(), dragMoveEvent(), dropEvent(), effectiveWinId(), ensurePolished(), enterEvent(), find(), focusInEvent(), focusNextChild(), focusNextPrevChild(), focusOutEvent(), focusPolicy(), focusPreviousChild(), focusProxy(), focusWidget(), font(), fontInfo(), fontMetrics(), foregroundRole(), frameGeometry(), frameSize(), geometry(), getContentsMargins(), grab(), grabGesture(), grabKeyboard(), grab-Mouse(), grabShortcut(), graphicsEffect(), graphicsProxyWidget(), hasFocus(), hasHeight-ForWidth(), hasMouseTracking(), height(), heightForWidth(), hide(), hideEvent(), initPainter(), inputMethodEvent(), inputMethodHints(), inputMethodQuery(), insertAction(), insertActions(), isActiveWindow(), isAncestorOf(), isEnabled(), isEnabledTo(), isFullScreen(), isHidden(), isLeftToRight(), isMaximized(), isMinimized(), isModal(), isRightToLeft(), isVisible(), isVisibleTo(), isWindow(), isWindowModified(), keyPressEvent(), keyReleaseEvent(), keyboardGrabber(), layout(), layout-Direction(), leaveEvent(), locale(), lower(), mapFrom(), mapFromGlobal(), mapFromParent(), mapTo(), mapToGlobal(), mapToParent(), mask(), maximumHeight(), maximumSize(), maximumWidth(), metric(), minimumHeight(), minimumSize(), minimumSizeHint(), minimumWidth(), mouseDoubleClickEvent(), mouseGrabber(), mouseMoveEvent(), mousePressEvent(), mouseReleaseEvent(), move(), moveEvent(), nativeEvent(), nativeParentWidget(), nextInFocusChain(), normalGeometry(), overrideWindowFlags(), overrideWindowState(), paintEngine(), paintEvent(), palette(), parentWidget(), pos(), previousInFocusChain(), raise_(), rect(), redirected(), releaseKeyboard(), releaseMouse(), releaseShortcut(), removeAction(), render(), repaint(), resize(), resizeEvent(), restoreGeometry(), saveGeometry(), scroll(), setAcceptDrops(), setAccessibleDescription(), setAccessibleName(), setAttribute(), setAutoFillBackground(), setBackgroundRole(), setBaseSize(), setContentsMargins(), setContextMenuPolicy(), setCursor(), setDisabled(), setEnabled(), setFixedHeight(), setFixedSize(), setFixedWidth(), setFocus(), setFocusPolicy(), setFocusProxy(), setFont(), setForegroundRole(), setGeometry(), setGraphicsEffect(), setHidden(), setInputMethodHints(), setLayout(), setLayoutDirection(), setLocale(), setMask(), setMaximumHeight(), setMaximumSize(), setMaximumWidth(), setMinimumHeight(), setMinimumSize(), setMinimumWidth(), setMouseTracking(), setPalette(), setParent(), setShortcutAutoRepeat(), setShortcutEnabled(), setSizeIncrement(), setSizePolicy(), setStatusTip(), setStyle(), setStyleSheet(), setTabOrder(), setToolTip(), set-ToolTipDuration(), setUpdatesEnabled(), setVisible(), setWhatsThis(), setWindowFilePath(), setWindowFlags(), setWindowIcon(), setWindowIconText(), setWindowIcon() dowModality(), setWindowModified(), setWindowOpacity(), setWindowRole(), setWindowState(), setWindowTitle(), sharedPainter(), show(), showEvent(), showFullScreen(), showMaximized(), showMinimized(), showNormal(), size(), sizeHint(), sizeIncrement(), sizePolicy(), stackUnder(), statusTip(), style(), styleSheet(), tabletEvent(), testAttribute(), toolTip(), toolTipDuration(), underMouse(), ungrabGesture(), unsetCursor(), unsetLayoutDirection(), unsetLocale(), update(), updateGeometry(), updateMicroFocus(), updatesEnabled(), visibleRegion(), whatsThis(), wheelEvent(), width(), winId(), window(), windowFilePath(), windowFlags(), windowHandle(), windowIcon(), windowIconChanged(), windowIconText(), windowIconTextChanged(),

 $windowModality(),\ windowOpacity(),\ windowRole(),\ windowState(),\ windowTitle(),\ windowTitle(),\ windowType(),\ x(),\ y()$

$Inherited\ from\ PyQt5.QtCore.QObject$

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(), dumpObjectTree(), dynamicPropertyNames(), eventFilter(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEvent-Filter(), sender(), senderSignalIndex(), setObjectName(), setProperty(), signals-Blocked(), startTimer(), thread(), timerEvent(), tr()

$Inherited\ from\ PyQt5. QtGui. QPaintDevice$

colorCount(), depth(), devicePixelRatio(), heightMM(), logicalDpiX(), logicalDpiY(), paintingActive(), physicalDpiX(), physicalDpiY(), widthMM()

Inherited from sip.simplewrapper

___new___()

Inherited from object

$_{}$ delattr $_{}$ ()	,fo	$\operatorname{rmat}_{}$	_(),	_getattrib [.]	ute	$(), \underline{\hspace{1cm}}$ has	sh(),r	reduce_	(),
$__$ reduce $_$ ex $_$	_(), _	repr_	(), _	$\{ m setattr}_$	(), _	_sizeof_	_(), _	str_	(),	_sub-
classhook()										

9.3.2 Properties

Name	Description
Inherited from object	
class	

9.3.3 Class Variables

Name	Description			
Inherited from PyQt5.QtWidgets.QMainWindow				
AllowNestedDocks, AllowTabbedDocks, AnimatedDocks,				
ForceTabbedDocks, VerticalTabs				
Inherited from $PyQt5.QtWidgets.QWidget$				
DrawChildren, DrawWindowBackground, IgnoreMask				
Inherited from $PyQt5.QtCore.QObject$				
staticMetaObject				

 $continued\ on\ next\ page$

Name	Description		
Inherited from PyQt5.QtGui	$\overline{.QPaintDevice}$		
PdmDepth, PdmDevicePixelRatio, PdmDpiX, PdmDpiY, PdmHeight,			
PdmHeightMM, PdmNumColors, PdmPhysicalDpiX, PdmPhysicalDpiY,			
PdmWidth, PdmWidthMM			

9.4 Class drawlotto

```
object —
sip.simplewrapper —
sip.wrapper —
PyQt5.QtCore.QObject —
pylottosimu.pylotto.drawlotto
```

9.4.1 Methods

 $\begin{tabular}{ll} $__init__(self, name='.totto DE', max_draw=49, draw_numbers=6, with_addit=False, addit_numbers=0, sep_addit_numbers=False, max_addit=0) \end{tabular}$

simulate a lotto draw

Parameters

name: name of game

(type=string)

max draw: maximal draw numbers

(type=int)

draw numbers: the draw numbers

(type=int)

with_addit: with additional number

(type=bool)

addit_numbers: the additional numbers

(type=int)

sep addit numbers: separates additional numbers

(type=bool)

max addit: maximal additional numbers

(type=int)

Overrides: object. init

draw(self)

draw of the lotto numbers

Return Value

none

picknumber(self, turn)

pick of a lotto number

Return Value

pick

Inherited from PyQt5.QtCore.QObject

__getattr__(), blockSignals(), childEvent(), children(), connectNotify(), customEvent(), deleteLater(), destroyed(), disconnect(), disconnectNotify(), dumpObjectInfo(),

dumpObjectTree(), dynamicPropertyNames(), event(), eventFilter(), findChild(), findChildren(), inherits(), installEventFilter(), isSignalConnected(), isWidgetType(), isWindowType(), killTimer(), metaObject(), moveToThread(), objectName(), objectNameChanged(), parent(), property(), pyqtConfigure(), receivers(), removeEvent-Filter(), sender(), senderSignalIndex(), setObjectName(), setParent(), setProperty(), signalsBlocked(), startTimer(), thread(), timerEvent(), tr()

$Inherited\ from\ sip.simple wrapper$

new	()

Inherited from object

delattr(), _	format	_(),	_getattrib	$ute__$	$(), \underline{\hspace{1cm}}$ has	sh(),r	educe_	(),
reduce_ex((),repr_	(), _	$__$ setattr $_$	(), _	sizeof	_(), _	$\{ m str}_$	(),	_sub-
classhook()									

9.4.2 Properties

Name	Description
Inherited from object	
class	

9.4.3 Class Variables

Name	Description
Inherited from PyQt5.QtCor	e.QObject
staticMetaObject	

10 Module pylottosimu.test_drawlotto

pyLottoSimu

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10.1 Variables

Name	Description
package	Value: 'pylottosimu'

10.2 Class drawlottoTestCase

object —		
unittest.case.TestCase	\neg	
	pylottosimu.test_	$_drawlotto.drawlottoTestCase$

10.2.1 Methods

setUp(self)

Hook method for setting up the test fixture before exercising it.

Overrides: unittest.case.TestCase.setUp extit(inherited documentation)

```
\mathbf{test\_setting}(self)
```

$\mathbf{test_draw}(self)$		
$\boxed{\mathbf{test_draw_addit}(\mathit{self})}$		
$\boxed{\mathbf{test_draw_addit_sep}(\mathit{sel})}$	f)	
Inherited from unittest.case.	TestCase	
str(), addCleanup(), a tAlmostEquals(), assertDictC sertEquals(), assertFalse(), a sertIs(), assertIsInstance(), a sertItemsEqual(), assertLess(LineEqual(), assertNotAlmost assertNotEquals(), assertNotI assertRaises(), assertRaisesRe assertSetEqual(), assertTrue(debug(), defaultTestResult() failIfEqual(), failUnless(), fai	hash(),init(),ne(),repr(), ddTypeEqualityFunc(), assertAlmostEqual(), assertOntainsSubset(), assertDictEqual(), assertEqual(), assertIsNot(), assertIsNot(), assertIsNotNone(), assertIsNot(), assertIsNotNone(), assertLessEqual(), assertListEqual(), assertMultitEqual(), assertNotAlmostEqual(), assertNotEqual(), in(), assertNotIsInstance(), assertNotRegexpMatches(), assertTupleEqual(), assertSequenceEqual(), assertTupleEqual(), assert_(), countTestCases(), doCleanups(), fail(), failIf(), failIfAlmostEqual(), lUnlessAlmostEqual(), failUnlessEqual(), failUnlessClass(), shortDescription(), skipTest(), tearDown(),),
Inherited from object		
delattr(),format reduce_ex(),setatt	_(),getattribute(),new(),reduce(cr(),sizeof(),subclasshook()),
10.2.2 Properties		
Name	Description	
Inherited from object		
class		
10.2.3 Class Variables		
Name	Description	
Inherited from unittest.case. longMessage, maxDiff	TestCase	

11 Module pylottosimu.test_pep8

pyLottoSimu

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Author: mar

11.1 Variables

Name	Description
package	Value: 'pylottosimu'

11.2 Class TestCodeFormat



11.2.1 Methods



 $Inherited\ from\ unit test. case.\ Test Case$

```
__call__(), __eq__(), __hash__(), __init__(), __ne__(), __repr__(), __str__(), addCleanup(), addTypeEqualityFunc(), assertAlmostEqual(), asser-
```

tAlmostEquals(), assertDictContainsSubset(), assertDictEqual(), assertEqual(), assertEquals(), assertIsInstance(), assertIsInstance(), assertIsNone(), assertIsNot(), assertIsNotNone(), assertIsInstance(), assertLessEqual(), assertListEqual(), assertMulti-LineEqual(), assertNotAlmostEqual(), assertNotAlmostEquals(), assertNotEqual(), assertNotEquals(), assertNotEquals(), assertNotEquals(), assertNotEquals(), assertNotEquals(), assertNotEquals(), assertRaises(), assertRaisesRegexp(), assertRegexpMatches(), assertSequenceEqual(), assertSetEqual(), assertTrue(), assertTupleEqual(), assert_(), countTestCases(), debug(), defaultTestResult(), doCleanups(), fail(), failIf(), failIfAlmostEqual(), failIfEqual(), failUnless(), failUnlessAlmostEqual(), failUnlessEqual(), failUnless-Raises(), id(), run(), setUp(), setUpClass(), shortDescription(), skipTest(), tear-Down(), tearDownClass()

Inherited from object

delattr()),forma	.t(),	_getattribute	$__(), _$	new()),reduc	ce()
$__$ reduce $_$ ex $_$	$(), _{se}$	etattr()	,sizeof	_(),	_subclassho	ok()	

11.2.2 Properties

Name	Description
Inherited from object	
class	

11.2.3 Class Variables

Name	Description
Inherited from unittest.case.	TestCase
longMessage, maxDiff	

12 Module pylottosimu.test show drawing

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Author: mar

12.1 Variables

Name	Description
package	Value: 'pylottosimu'

12.2 Class show_drawingTestCase

object —	
unittest. case. Test Case	
	$pylottosimu.test_show_drawing.show_drawingTestCase$
Test of drawing	

12.2.1 Methods

$\mathbf{setUp}(\mathit{self})$	
Creates the QApplication instance	
Overrides: unittest.case.TestCase.setUp	

tearDown(self)	
Deletes the reference own	ned by self
Overrides: unittest.case.T	TestCase.tearDown
$\boxed{\textbf{test_setting}(\textit{self})}$	
$\boxed{\textbf{test_ballnumbers}(\textit{self})}$	
$\boxed{\text{test_bonusnumbers}(see$	elf)
test_bonusnumbersse	$\mathbf{parate}(\mathit{self})$
$erited\ from\ unit test.ca$	se. Test Case
str(), addCleanup(tAlmostEquals(), assertDisertEquals(), assertFalse(sertIs(), assertIsInstance(sertItemsEqual(), assertLLineEqual(), assertNotAlmassertNotEquals(), assertRaises(), assertRaises(), assertRaises(), assertTaises(), asser	hash(),init(),ne(),repr(), (), addTypeEqualityFunc(), assertAlmostEqual(), assertictContainsSubset(), assertDictEqual(), assertEqual(), assertIsNot(), assertIsNot(), assertIsNot(), assertIsNotNone(), assertIsNot(), assertIsNotNone(), assert(), assertLessEqual(), assertListEqual(), assertMultimostEqual(), assertNotAlmostEqual(), assertNotEqual(), NotIn(), assertNotIsInstance(), assertNotRegexpMatches(), esRegexp(), assertTupleEqual(), assert_(), countTestCases(), alt(), doCleanups(), fail(), failIf(), failIfAlmostEqual(),

$Inherited\ from\ object$

$\underline{}$ delattr $\underline{}$ (),	$\underline{}$ format $\underline{}$ (),	getattribute	_(),new()	,reduce();
$__$ reduce $_$ ex $__$	_(),setattr	(), $$ sizeof $$ ()	,subclasshoo	k()

failIfEqual(), failUnless(), failUnlessAlmostEqual(), failUnlessEqual(), failUnless-Raises(), id(), run(), setUpClass(), shortDescription(), skipTest(), tearDownClass()

12.2.2 Properties

Name	Description
Inherited from object	
class	

12.2.3 Class Variables

Name	Description
Inherited from unittest.case. TestCase	
longMessage, maxDiff	

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