

**O‘zbekiston Respublikasi Mudofaa Vazirligi**

**axborot-kommunikatsiya texnologiyalari va**

**aloqa harbiy instituti**

**Tarmoq va axborot tizimlari xavfsizligi kafedrasi**

**4-AMALIY TOPSHIRIQ**

**Bajardi: 4-bosqich kursanti Turdibekov Sh.**

**9-variant**

**Uch xonali son berilgan. Jumlani rostlikka tekshiring: “Ushbu sonning raqamlari ketma-ket o’suvchi bo’lib joylashgan”. Dastur pyqt5 paketidan foydalanib tuzilsin.**

import sys  
from PyQt5.QtWidgets import QApplication, QWidget, QVBoxLayout, QLabel, QLineEdit, QPushButton, QMessageBox  
  
  
class NumberCheckApp(QWidget):  
 def \_\_init\_\_(self):  
 super().\_\_init\_\_()  
  
 self.setWindowTitle("Son tekshirish")  
 self.setGeometry(100, 100, 300, 150)  
  
 # Layout yaratish  
 layout = QVBoxLayout()  
  
 # Label va TextBox (QLineEdit)  
 self.label = QLabel("Uch xonali sonni kiriting:")  
 self.input\_box = QLineEdit()  
  
 # Tugma  
 self.check\_button = QPushButton("Tekshirish")  
 self.check\_button.clicked.connect(self.check\_number)  
  
 # Layoutga elementlarni qo'shish  
 layout.addWidget(self.label)  
 layout.addWidget(self.input\_box)  
 layout.addWidget(self.check\_button)  
  
 # Layoutni oyna (window) ga o'rnatish  
 self.setLayout(layout)  
  
 def check\_number(self):  
 # Sonni olish  
 number = self.input\_box.text()  
  
 # Son uch xonali bo'lishini tekshirish  
 if len(number) != 3 or not number.isdigit():  
 self.show\_message("Xatolik", "Iltimos, uch xonali son kiriting.")  
 return  
  
 # Raqamlari ketma-ket o'suvchi bo'lib joylashganligini tekshirish  
 digits = [int(digit) for digit in number]  
 if digits[0] < digits[1] < digits[2]:  
 self.show\_message("Natija", "True")  
 else:  
 self.show\_message("Natija", "False")  
  
 def show\_message(self, title, message):  
 # MessageBox ko'rsatish  
 msg = QMessageBox()  
 msg.setWindowTitle(title)  
 msg.setText(message)  
 msg.exec\_()  
  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 app = QApplication(sys.argv)  
 window = NumberCheckApp()  
 window.show()  
 sys.exit(app.exec\_())





