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DEF Robot_program()
INI
;*****
;*
;*          Default src Template for Kuka-Krc
;*          Created 14/08/2007 by Siemens PLM
;*
;* Study           : Njegovec_diplomski
;* Program          : Robot_program
;* Generation Date  : 09/03/2025 at 20:55:04
;* Robot           : KR120_R2700_2
;* User            : nnjegovec
;* Tecnomatix Software : Process Simulate Disconnected 16.1
;* Olp             : Kuka-Krc 4.38.2
;*
;*****
;#END_HEADER

;# Program broj 1 - Proces tockastog zavarivanja
;# ----- START PATH : Op_zavar -----
;#
PTP P1_HOME Vel=100 % PP1_HOME Tool[1]:gun Base[0]
PTP P1_20 Vel=100 % PP1_20 Tool[1]:gun Base[0]
;# Slanje signala PLC-u da je robot pocao s radom
OUT 3 ' ' State= TRUE
PTP P1_25 Vel=100 % PP1_25 Tool[1]:gun Base[0]
OUT 3 ' ' State= FALSE
PTP P1_30 Vel=100 % PP1_30 Tool[1]:gun Base[0]
PTP P1_40 Vel=100 % PP1_40 Tool[1]:gun Base[0]
LIN P1_45 Vel=0.1 m/s LP1_45 Tool[1]:gun Base[0]
LIN P1_50 Vel=0.1 m/s LP1_50 Tool[1]:gun Base[0]
;# OLP naredbe unutar Process Simulatea
;# Aktivacija kliješta - proces tockastog zavarivanja
;SIM # Destination servo_welding_gun
;SIM # Drive Working
;# Cekanje da zavar bude izvršen
WAIT Time= 0.5 sec
;# Vracanje kliješta u pocetnu poziciju
;SIM # Destination servo_welding_gun
;SIM # Drive HOME
;# Cekanje da se radni dio kliješta vrati u home poziciju
WAIT Time= 0.5 sec
LIN P1_55 Vel=0.1 m/s LP1_55 Tool[1]:gun Base[0]
LIN P1_60 Vel=0.1 m/s LP1_60 Tool[1]:gun Base[0]
PTP P1_70 Vel=100 % PP1_70 Tool[1]:gun Base[0]
PTP P1_80 Vel=100 % PP1_80 Tool[1]:gun Base[0]
LIN P1_85 Vel=0.1 m/s LP1_85 Tool[1]:gun Base[0]
LIN P1_90 Vel=0.1 m/s LP1_90 Tool[1]:gun Base[0]
;# Aktivacija kliješta - proces tockastog zavarivanja
;SIM # Destination servo_welding_gun
;SIM # Drive Working
;# Cekanje da zavar bude izvršen
WAIT Time= 0.5 sec
;# Vracanje kliješta u pocetnu poziciju
;SIM # Destination servo_welding_gun
;SIM # Drive HOME
;# Cekanje da se radni dio kliješta vrati u home poziciju
WAIT Time= 0.5 sec
PTP P1_95 Vel=100 % PP1_95 Tool[1]:gun Base[0]
;# Slanje handshake signala PLC-u da je zavar izvršen
OUT 4 ' ' State= TRUE
LIN P1_100 Vel=0.1 m/s LP1_100 Tool[1]:gun Base[0]
PTP P1_110 Vel=100 % PP1_110 Tool[1]:gun Base[0]
PTP P1_120 Vel=100 % PP1_120 Tool[1]:gun Base[0]
PTP P1_HOME Vel=100 % PP1_HOME Tool[1]:gun Base[0]

;# Program 2 - Servisni program za brušenje bakrenih kapica
;# ----- START PATH : Op_brusenje_kapica -----
PTP P2_HOME Vel=100 % PP2_HOME Tool[1]:gun Base[0]
PTP P2_10 Vel=100 % PP2_10 Tool[1]:gun Base[0]

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PTP P2_20 Vel=100 % PP2_20 Tool[1]:gun Base[0]
PTP P2_30 Vel=100 % PP2_30 Tool[1]:gun Base[0]
PTP P2_40 Vel=100 % PP2_40 Tool[1]:gun Base[0]
PTP P2_50 Vel=100 % PP2_50 Tool[1]:gun Base[0]
LIN P2_60 Vel=0.1 m/s LP2_60 Tool[1]:gun Base[0]
LIN P2_70 Vel=0.1 m/s LP2_70 Tool[1]:gun Base[0]
;# Okvirno vrijeme cekanja da se bakrena kapica izbrusi
;SIM # WaitTime 5
LIN P2_80 Vel=0.1 m/s LP2_80 Tool[1]:gun Base[0]
LIN P2_90 Vel=0.1 m/s LP2_90 Tool[1]:gun Base[0]
;# Okvirno vrijeme cekanja da se bakrena kapica izbrusi
;SIM # WaitTime 5
LIN P2_100 Vel=0.1 m/s LP2_100 Tool[1]:gun Base[0]
LIN P2_110 Vel=0.1 m/s LP2_110 Tool[1]:gun Base[0]
PTP P2_120 Vel=100 % PP2_120 Tool[1]:gun Base[0]
PTP P2_HOME Vel=100 % PP2_HOME Tool[1]:gun Base[0]
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;#START_TRAILER
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END
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