Code these Pseudocode Solutions

|  |  |  |
| --- | --- | --- |
|  | Pseudocode(Different styles used) | Python Code |
| 1 | SEND ‘Hello World’ to DISPLAY | # Number 1print('Hello World') |
| 2 | RECEIVE Name FROM KEYBOARDSEND ‘Hello’ Name to DISPLAY | # Number 2Name = input('Name please')print('Hello',Name) |
| 3 | GET an integer number FROM THE USERDISPLAY numberDISPLAY number X 3 | # Number 3number = int(input('Number please'))print(number \* 3) |
|  | **Hints ( +, -, \*, /) Power: \*\* Modulus: %** |  |
| 4 | GET two integers from user (n1 and n2)CALCULATE n1 + n2DISPLAY the numbers and the answer | # Number 4n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 + n2print(n1, n2, answer) |
| 5 | GET two integers from user (n1 and n2)CALCULATE n1 - n2DISPLAY the numbers and the answer | # Number 5n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 - n2print(n1, n2, answer) |
| 6 | GET two integers from user (n1 and n2)CALCULATE n1 X n2DISPLAY the numbers and the answer | # Number 6n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 \* n2print(n1, n2, answer) |
| 7 | GET two integers from user (n1 and n2)CALCULATE n1 divided by n2DISPLAY the numbers and the answer | # Number 7n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 / n2print(n1, n2, answer) |
| 8 | GET two integers from user (n1 and n2)CALCULATE n1 raised to the power of n2DISPLAY the numbers and the answer | # Number 8n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 \*\* n2print(n1, n2, answer) |
| 9 | GET two integers from user (n1 and n2)CALCULATE remainder of n1 divided by n2 (Modulus)DISPLAY the numbers and the answer | # Number 9n1 = int(input('Number please'))n2 = int(input('Number please'))answer = n1 % n2print(n1, n2, answer) |

|  |  |  |
| --- | --- | --- |
|  | Pseudocode(Different styles used) | Python Code |
| 10 | SET nice\_feature TO ‘lovely smile’RECEIVE name FROM keyboardSET message TO name + ‘ has a ‘ + nice\_featureSEND message to DISPLAY | # Number 10nice\_feature = 'lovely smile'name = input('Name please')message = name + " has a " + nice\_featureprint(message) |
|  | **Repeat a string: print('Novill is king ' \* 3)****Line break and tab: \n \t** |  |
| 11 | GET user’s name (name)OUTPUT ‘name’ 5 times on the same line | # Number 11name = input('Name please')print(name \* 5) |
| 12 | GET user’s name (name)OUTPUT ‘name’ 5 times on the separate lines | # Number 12name=input("Name please")print((name+"\n")\* 3) |
| 13 | ASK user for a 3 digit number (num)CALCULATE whole = num / 7CALCULATE whole = integer value of wholeCALCULATE remainder = num % 7OUPUT num, whole and remainder with a suitable message | # Number 13num = int(input('A 3 digit number please'))whole = num / 7whole = int(whole)remainder = num % 7print(num, whole, remainder) |

|  |  |  |
| --- | --- | --- |
|  | Pseudocode(Different styles used) | Python Code |
|  | **Hints:****if name == 'Andy':** **print(name + ' has lovely ears')****and****if n>7:** **print('Pass')****else:** **print('Fail')** |  |
| 14 | GET password FROM keyboardIF password = “MADDOCK” THEN OUTPUT “Correct password”ENDIF |  |
| 15 | GET num FROM userCALCULATE y = num % 2IF y=0 THEN OUTPUT “Even”ELSE OUTPUT “Odd”ENDIF |  |
|  | **for x in range(1,10):** **print(x)** |  |
| 16 | ASK user for times table (t)FOR x FROM 1 TO 13 OUTPUT t \* xEND FOR | # Number 16t=int(input('Which times table'))for x in range(1,13): print (t \* x) |
| 17 | FOR n1 FROM 1 TO 13 FOR n2 FROM 1 TO 13 OUTPUT n1, ‘X’, n2, ‘=’, n1\*n2 END FOREND FOR | # Number 17for n1 in range(1,13): for n2 in range(1,13): print (n1,"X",n2,"=",n1\*n2) |

|  |  |  |
| --- | --- | --- |
|  | Pseudocode(Different styles used) | Python Code(Incomplete) |
| 18 | SET x=0SET y=0WHILE x < 10 SET x = x + 1 SET y = x ^ 2 SEND x,”squared =”,y to DISPLAYEND WHILE | # Number 18x=0y=0while x<10: x = x + 1 y = x \*\* 2 print(x,"squared =",y) |
| 19 | SET c = 0WHILE c not = 9 OUTPUT ‘What do you want to know?’ OUTPUT ‘1 – Next week’s lottery winners’ OUTPUT ‘2 – The secret of life’ OUTPUT ‘9 – Exit program’ GET user’s choice (c) IF c=1 THEN OUTPUT ‘You pressed 1’ ELSEIF c=2 THEN OUTPUT ‘You Pressed 2’ ELSEIF c=9 THEN OUTPUT ‘Goodbye’ ENDIFEND WHILE | c=0while c!= 9 : print("What do you want to know?") print("1 – Next week’s lottery winners") print("2 - The secret of life") print("9 - Exit") c=int(input('Enter your choice')) if c==1: #Your code here elif c==2: #Your code here elif c==9: print('Goodbye') |

|  |  |  |
| --- | --- | --- |
|  | Pseudocode | Python Code(Incomplete) |
| 20 | IMPORT random modulePROCEDURE Lottery () BEGIN PROCEDURE OUTPUT 6 random numbers between 1 and 59 END PROCEDUREPROCEDURE Mol () BEGIN PROCEDURE OUTPUT 42 END PROCEDURESET c = 0WHILE c not = 9 OUTPUT ‘What do you want to know?’ OUTPUT ‘1 – Next week’s lottery winners’ OUTPUT ‘2 – The secret of life’ OUTPUT ‘9 – Exit program’ GET user’s choice (c) IF c=1 THEN Lottery() ELSEIF c=2 THEN Mol() ELSEIF c=9 THEN OUTPUT ‘Good bye’ ENDIFEND WHILE | import randomdef Lottery(): #Your code heredef MeaningofLife(): #Your code herec=0while c!= 9 : print("What do you want to know?") print("1 – Next week’s lottery winners") print("2 - The secret of life") print("9 - Exit") c=int(input('Enter your choice')) if c==1: Lottery() elif c==2: #Your code here elif c==9: print('Goodbye')import randomdef Lottery(): print(random.sample(range(1, 59), 6))def Mol(): print(42)c=0while c!= 9 : print("What do you want to know?") print("1 – Next week’s lottery winners") print("2 - The secret of life") print("9 - Exit") c=int(input('Enter your choice')) if c==1: Lottery() elif c==2: Mol() elif c==9: print('Goodbye') |
|  |  |  |