Code these Pseudocode Solutions

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

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|  | Pseudocode (Different styles used) | Python Code |
| 10 | SET nice\_feature TO ‘lovely smile’  RECEIVE name FROM keyboard  SET message TO name + ‘ has a ‘ + nice\_feature  SEND message to DISPLAY | # Number 10  nice\_feature = 'lovely smile'  name = input('Name please')  message = name + " has a " + nice\_feature  print(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 11  name = input('Name please')  print(name \* 5) |
| 12 | GET user’s name (name)  OUTPUT ‘name’ 5 times on the separate lines | # Number 12  name=input("Name please")  print((name+"\n")\* 3) |
| 13 | ASK user for a 3 digit number (num)  CALCULATE whole = num / 7  CALCULATE whole = integer value of whole  CALCULATE remainder = num % 7  OUPUT num, whole and remainder with a suitable message | # Number 13  num = int(input('A 3 digit number please'))  whole = num / 7  whole = int(whole)  remainder = num % 7  print(num, whole, remainder) |

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|  | 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 keyboard  IF password = “MADDOCK” THEN  OUTPUT “Correct password”  ENDIF |  |
| 15 | GET num FROM user  CALCULATE y = num % 2  IF 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 \* x  END FOR | # Number 16  t=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 FOR  END FOR | # Number 17  for n1 in range(1,13):  for n2 in range(1,13):  print (n1,"X",n2,"=",n1\*n2) |

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|  | Pseudocode (Different styles used) | Python Code (Incomplete) |
| 18 | SET x=0  SET y=0  WHILE x < 10  SET x = x + 1  SET y = x ^ 2  SEND x,”squared =”,y to DISPLAY  END WHILE | # Number 18  x=0  y=0  while x<10:  x = x + 1  y = x \*\* 2  print(x,"squared =",y) |
| 19 | SET c = 0  WHILE 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’  ENDIF  END WHILE | c=0  while 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') |

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|  | Pseudocode | Python Code (Incomplete) |
| 20 | IMPORT random module  PROCEDURE Lottery ()  BEGIN PROCEDURE  OUTPUT 6 random numbers between 1 and 59  END PROCEDURE  PROCEDURE Mol ()  BEGIN PROCEDURE  OUTPUT 42  END PROCEDURE  SET c = 0  WHILE 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’  ENDIF  END WHILE | import random  def Lottery():  #Your code here  def MeaningofLife():  #Your code here  c=0  while 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 random  def Lottery():  print(random.sample(range(1, 59), 6))  def Mol():  print(42)  c=0  while 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') |
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