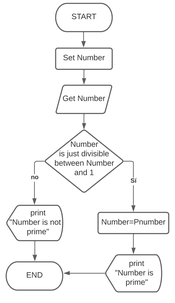
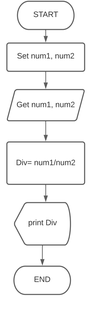
SectionB

1. Draw a flowchart and design the pseudocode that check if a number is prime or not.

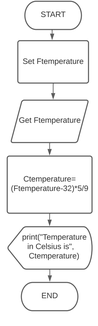


2. Draw a flowchart and write its pseudocode that adds / multiplies two numbers by the user.

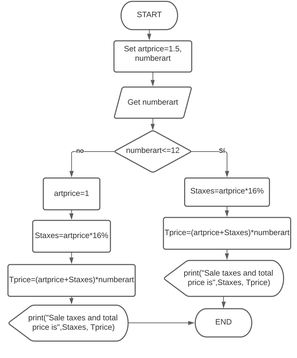
3. Draw a flowchart and write its pseudocode that divides two numbers given by the user (the first number is divided by the second number).



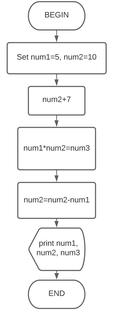
4. Draw a flowchart and write its pseudocode to convert temperature in Fahrenhit to Celsius.



5. Design the algorithm for a program that calculates the total of a retail sale. The program should ask the user for the following: the retail price of the item being purchased and the sales tax rate. Once the information has been entered the program should calculate and display the following: the sales tax for the purchase and the total sale. Draw the flowchart for this algorithm



6. Draw a flowchart to match the following pseudocode:
BEGIN
Given variable num1 a starting value of 5 Give variable num2 a starting value of 10
Add 7 to num2
Store the valuenum1 multiply num2 in variable num3
Store the value num2 minus num1 in num2
Output num1, num2 and num3
END



Pseudocodes

Excersice1
Start program: Prime numbers
  Declare
    Number, AnwerYes, not
  Print("Enter number")
  Get Number
  Answer=("The number selected can be divided just by itself and 1, Yes or not? ")
  Get Yes, not
    If Answer= Yes
      print("The number is prime")
    else
      print("The number is not prime")

End program

Excersice2
Start program: Multiply and add
  Declare
    num1, num2, M, add
  Print("Enter number 1 and number 2")
  Get num1, num2
  M=num1*num2
  add=num1+num2
  print("Multiplication answer is",M)
  print("Addition answer is",add)
End program

Excersice3
Start program: Division
  Declare
    num1, num2, Div
  Print ("Enter number1 and number 2")
  Get num1, num2
  Div= num1/num2
  print("The answer is", Div)
End program

Excersice4
Start program: Fahrenheit to Celsius
  Declare
    Ctemperature, Ftemperature
  print("What is the Fahrenheit temperature?")
  Get Ftemperature
  Ctemperature=(Ftemperature-32)*5/9
  print("Celsius temperature is", Ctemperature)
End program

Excersice5
Start program: Retail sale
  Declare
    artprice=1.5, numbertart, Staxes, Tprice
  print("What is the price of the product?")
  Get artprice
  print("Number of products that will be buy")
  Get numberart
    If numberart<=12
      Staxes=artprice*16/100
      Tprice=(artprice+Staxes)*numberart
      print("Sales taxes and total price is",Staxes, Tprice)
    else
      artprice=1
      Staxes=artprice*16/100
      Tprice=(artprice+Staxes)*numberart
      print("Sales taxes and total price is",Staxes, Tprice)
End program