ALGORITHM

24k-0912

TASK 01:

1. Start
2. input number n
3. check if n is less than 2 then it is not prime
4. check if n is 2 or 3 then it is prime
5. start loop
6. counter=3 and iterate to the n
7. if n is divisible by counter more than 1 time
8. Then It is not prime
9. Else Prime

TASK 02:

1. Ask the user to enter day number(1-365)
2. Make sure that the day is in range of 1-365 days
3. If not, prompt the user to enter a valid number
4. To check the day of a week, subtract 1 form the day number,
5. Compute the reminder when dividing this result by 7(N-1)%7)
6. This remainder give you an index corresponding to a day of a week.
7. Start the number of days from 0 and take Monday as a zero
8. 0 = Monday
9. 1 = Tuesday
10. 2= Wednesday
11. 3= Thursday
12. 4= Friday
13. 5= Saturday
14. 6= Sunday
15. END

TASK 03:

1. Ask the user to take the two positive number x and y
2. Suppose x=X and y=Y
3. Repeat the Steps until “Y” becomes Zero
4. Calculate the remainder r when x is divided by (r= x % y)
5. Set x=y
6. Set y= r
7. Once b becomes 0, the value of a is the GCD of original number X AND Y
8. Display x as a the GCD
9. END

PSEUDOCODE

TASK 01

1. START
2. Input no 1 = X
3. Input no 2 = Y
4. Input no 3 = Z
5. IF x<y<z
6. Print x is the smallest
7. IF y<z<x
8. Print y is the smallest
9. IF z<x<y
10. Print x is the smallest

TASK 02:

1. Input no 1
2. Input no 2
3. Use the operator +
4. Take the second number Negative,
5. Add these two numbers
6. This give the same result as the subtraction of no 1 from no 2
7. Show the Result
8. Output = Result of subtracting “no1 from no 2”

TASK 03:

1. Input no 1
2. Input no 2
3. Ask the user for the desired operation (either * for multiplication or / for division)
4. PRINT "Enter the operation (* for multiplication or / for division)
5. Check the which operation the user has selected
6. IF operator takes *
7. Print “multiply the no1 * no2”
8. ELSE if operator takes /
9. Print “divide the no1 / no 2”
10. END