26-10-2023 Assignments

Q1. Addition of three numbers

1.Start

2.Declare variables num1, num2, num3, and sum

3.Print “enter three numbers”

4.Read num1,num2 and num3

5.Compute sum=num1+num2+num3

6.Print “the sum of the three numbers is: ”, sum

7.End

Q2.marks

Begin

Declare m1,m2,m3,che,phy,avg,percent;

Display "Enter the marks of the subjects ";

input m1,m2,m3,che,phy;

avg=m1+m2+m3+phy+che;

percent=avg/5\*100;

output avg,percent;

End

Q3. Find the area and peremeter of circle, rectangle and square

1. Define PI as 3.14159

2. Function CalculateCircleArea(radius):

3. Return PI \* radius \* radius

4. Function CalculateCirclePerimeter(radius):

5. Return 2 \* PI \* radius

6. Function CalculateRectangleArea(length, width):

7. Return length \* width

8. Function CalculateRectanglePerimeter(length, width):

9. Return 2 \* (length + width)

10. Function CalculateSquareArea(side):

11. Return side \* side

12. Function CalculateSquarePerimeter(side):

13. Return 4 \* side

Q4.simple interest

1.Start

2.Read principle amount, rate of interest and time period

3.Calculate interest by using the formula

SI=(principle amount \*rate of interest \*time period)/100

4.Print the SI

5.Stop

Q5. Maximum and Minimum

1.Start

2.Declare the variable input Num1,Num2 and Num3

3.Set maxNum to num1

4.Set minNum to num1

5.if(num2 > maxNum)

6.set maxNum to num2

7.if(num3 > maxNum)

8.set maxNum to num3

9.if(num3 < minNum)

10.set minNuim to num3

11. putput “Maximum is: ” + maxNum

12.output “Minimum is: ” + minNum

13.End

Q6.Even or Odd

1.Start

2.Intput num

3.if num is divisible by 2(num%2==0)

4.Output “Even”

5.Else

6.Output “odd”

7.End

Q7.Temperature

1.Start

2.Input CelsiusTemperature

3.Set fahrenheitTemperature to (CelsiusTemperature \* 9/5) + 32

4.Output “Temperature in Fahrenheit: ” + fahrenheitTemperature

5.End

Q8. Leap year or Not

1.Start

2.Input year

3.if (year is divisible by 4) and ((year is not divisible by 100) or (divisible by 400))

4.Output “It is a leap Year”

5.Else

6.Output “It is not a leap year”

7.End

Q10.Prime number

1. Start

2. Input number

3. If number is less than 2

4. Output "Not Prime" (Numbers less than 2 are not prime)

5. Else if number is equal to 2

6. Output "Prime" (2 is a prime number)

7. Else

8. Set isPrime to true

9. For each integer i from 2 to the square root of number (i \* i <= number)

10. If number is divisible by i

11. Set isPrime to false

12. Exit the loop

13. If isPrime is true

14. Output "Prime"

15. Else

16. Output "Not Prime"

17. End

Q11. Print Numbers 1 to 10.

1.Start

2.Set number to 1

3.Repeat the following steps while number is less than or equal to 10:

4.Output number

5.Increment number by 1

6.End

Q12.Sum of N natural numbers

1. Start

2. Input N

3. Set sum to 0

4. Set i to 1

5. Repeat the following steps N times:

6. Add i to sum

7. Increment i by 1

8. Output "Sum of the first " + N + " natural numbers is " + sum

9. End