Assignment: 01

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1. Write a program that takes two number as input and prints their sum.

**Pseudo code:**

**PROGRAM** SumofTwoNumber:

Read num1, num2;

Print num1 + num2;

**END.**

1. Write a program that prints all even number from 1 to 100.

**Pseudo code:**

**PROGRAM** Even**:**

Read num=1;

**WHILE**(num<=100) **DO**

**IF**(num%2==0) **THEN**

Print num;

**End IF**

num=num+1;

**End WHILE**

**END.**

1. Write a function that checks IF a given year is a leap year or not.

**Pseudo code:**

**PROGRAM LeapYear:**

Read year;

Boolean isLeap = false;

**IF** (year % 4 == 0) **THEN**

**IF** (year % 100 == 0) **THEN**

**IF** (year % 400 == 0) **THEN**

isLeap = true;

**ELSE**

isLeap = false;

**END IF**

**ELSE**

isLeap = true;

END IF

**ELSE**

isLeap = false;

**END IF**

**IF** (isLeap == true) THEN

Print "It is a leap year";

**ELSE**

Print "It is not a leap year";

**END IF**

**END.**

1. Write a program that converts kilometre per hours to mile per hours.

**Pseudocode:**

**PROGRAM** Convert:

Read KM;

Print=KM/1.609;

**END.**

1. Write a Pseudocode to check whether a number is buzz number or not.

**Pseudo code:**

**PROGRAM** Buzz:

Read num;

**IF** (num%10==7 OR num%7==0) **THEN**

Print num ‘is’ bzz;

**Else**

Print num ‘is’ not buzz,

**END IF**

**END.**

1. Write a program that ask user for number and prints the multiplication table of that number upto 10.

**Pseudo code:**

**PROGRAM** Table:

**Read num;**

count=1;

**WHILE**(count<=10) **DO**

Print num\*count;

count=count+1;

**End for loop;**

**END.**

1. Write a program that computers the factorial of a number.

**Pseudo code:**

**PROGRAM** Factorial:

**Read num;**

Read fact=1;

Initialize count=2;

**WHILE**(count<=num) **DO**

fact=fact\*count;

count=count+1;

**End WHILE loop**

Print Fact;

**END.**

1. **Write a function that checks whether a number is prime or not.**

**Pseudo code:**

**PROGRAM** Prime:

Read num;

Boolean isPrime = true;

count = 2;

**WHILE** (count < num**) DO**

**IF** (num % count == 0) **THEN**

isPrime = false;

**EXIT WHILE**

**END IF**

count = count + 1;

**END WHILE**

**IF**(isPrime == true) **THEN**

Print num " is a prime number";

**ELSE**

Print num “ is not a prime number”;

**END IF**

**END.**

1. Write a program…..?

**Pseudo code:**

**Program** Triangle:

Read side1, side2, side3;

**IF**(side1==side2 and side2==side3) **THEN**

Print Equilateral;

**Else IF**(side1==side2 or side1==side3 orside2==side3)**THEN**

Print isosceles;

**Else**

Print Scalene;

**End of IF**

**END.**

1. **Print the pattern..?**

**Pseudo code:**

**PROGRAM** Pattern:

Read row = 5;

count = 1;

**WHILE** (count <= row) **DO**

count2 = 1;

**WHILE** (count2 <= count**) DO**

Print "\*";

count2 = count2 + 1**;**

**END WHILE**

Print newline

count = count + 1;

**END WHILE // End of outer loop (count)**

**END.**

**Bonus Question:**

**Pseudo code:**

**PROGRAM** palindrome:

Read input, reminder, quotient;

Read result=0;

quotient=input;

**WHILE(**quotient!=0) **DO**

reminder =input%10;

result=result\*10+reminder;

quotient=quotient/10**;**

**END WHILE**

**IF**(result==input)**THEN**

Print palindrome;

**ELSE**

Print Not palindrome;

**END IF**

**END.**