

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.

2. 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.

3. 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.

```

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

```

Pseudocode:
PROGRAM Convert:
Read KM;
Print=KM/1.609;
END.

```

5. 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.

```

6. 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.

```

7. 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.

```

8. 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.

```

9. 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 or side2==side3)THEN
Print isosceles;
Else
Print Scalene;
End of IF
END.

```

10. 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.
```