

Assignment: 01

Name: Rakash Rasheed

Date: 08 July 2024

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

Pseudocode:

PROGRAM SumofTwoNumber:

 Read num1, num2;

 Print num1 + num2;

END.

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

Pseudocode:

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.

Pseudocode:

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.

```

Pseudocode:
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.

```

Pseudocode:
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.

Pseudocode:

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.

Pseudocode:

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.....?

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..?

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: