**MR. ISMAIL HOSSAIN**

**19-41088-2**

**Compiler desighn**

**3.Write a program to determine whether the Given Input is multiple line Comment line(s) or Not. [H.W.]**

**Input-3: /\* multiple line Comment \*/**

**Output-3: this is a multiple line comment**

**Answer:**

#include<stdio.h>

#include<conio.h>

void main() {

char com[30];

int i=2,a=0;

//clrscr();

printf("\n Enter comment:");

gets(com);

if(com[0]=='/') {

if(com[1]=='\*')

printf("\n this is a multiple line comment");

else if(com[1]=='\*') {

for(i=2;i<=30;i++)

{

if(com[i]=='\*'&&com[i+1]=='/')

{

printf("\n It is a comment");

a=1;

break; }

else

continue; }

if(a==0)

printf("\n It is not a multiple line comment");

}

else

printf("\n It is not a multiple line comment");

}

else

printf("\n It is not a multiple line comment");

getch();

}

Text

Description automatically generated

**4. Write a program to determine whether the Given Input is Identifier or Not. [H. W.]**

**Conditions/convention to detect identifier:**

**a) The first character should be alphabet characters/underscore (A-Z, a-z, \_)**

**b) From the Second character should be alpha-numeric characters/underscore (A-Z, a-z, \_ , 0-9)**

**Sample Input: initial**

**Answer:**

#include<stdio.h>

#include<conio.h>

#include<ctype.h>

int main()

{

char a[10];

int flag, i=1;

//clrscr();

printf("\n Enter an identifier:");

gets(a);

if(isalpha(a[0]))

flag=1;

else

printf("\n Not a identifier");

while(a[i]!='\0')

{

if(!isdigit(a[i])&&!isalpha(a[i]))

{

flag=0;

break;

}

i++;

}

if(flag==1)

printf("\n Identifier");

getch();

}

Text

Description automatically generated

Shape, rectangle

Description automatically generated