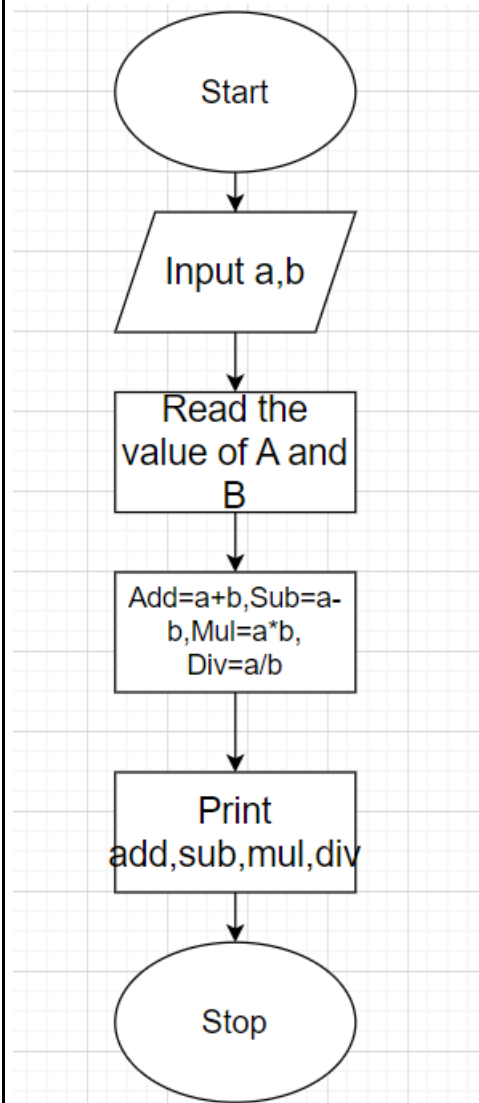| Name	Debjit Ghosal
UID no.	2023300065
Experiment No.	Experiment 1

AIM:	**Use the formatted input/output statements, operators and expressions of C language**
Program 1	
PROBLEM STATEMENT :	Write a C program to input 2 numbers. Perform addition, subtraction, multiplication, division and modulus and display output.
ALGORITHM:	Step1:Take input as a and b Step 2:Perform addition, subtraction, multiplication and division Step3:Using printf and scanf for writing a+b, a-b, a*b, a/b Step 4: Stop

FLOWCHART:	**Start** Input a,b Read the value of A and B Add=a+b,Sub=a-b,Mul=a*b, Div=a/b Print add,sub,mul,div **Stop**

PROGRAM:	```#include<stdio.h>```
	```int main()```
	```{```
	```int a,b;```
	```printf("Enter Value of A and B :");```
	```scanf("%d %d",&a,&b);```
	
	```printf("a+b=%d \n",a+b);```
	```printf("ab=%d \n",a-b);```
	```printf("a*b=%d \n",a*b);```
	```printf("a/b=%f",(float)a/b);```

	return 0;

RESULT:
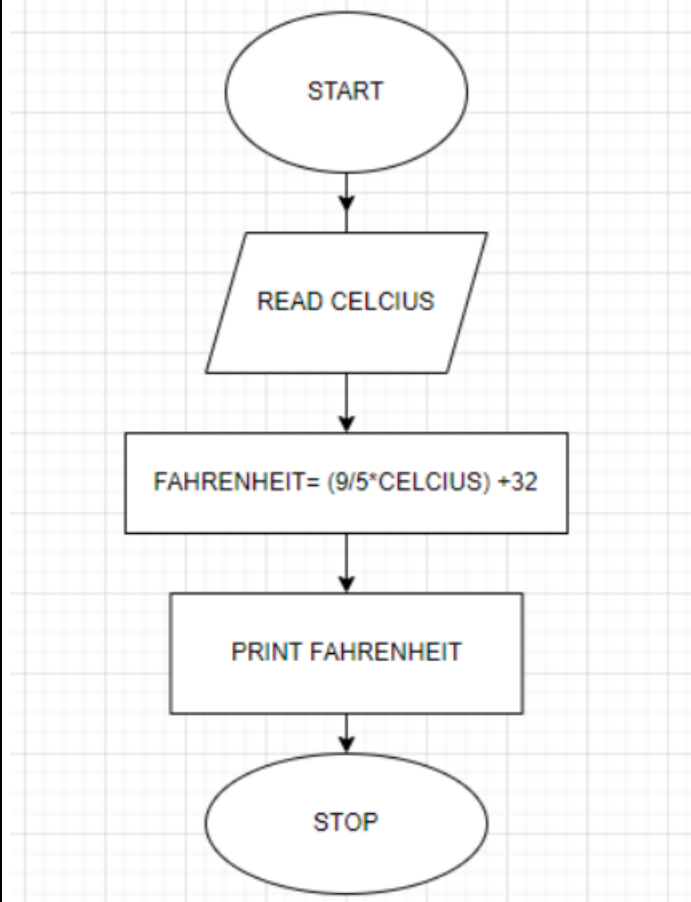
```
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PS C:\Users\DEBJIT GHOSAL\Desktop> gcc calcii.c
PS C:\Users\DEBJIT GHOSAL\Desktop> ./a
Enter Value of A and B :10 20
a+b=30
ab=-10
a*b=200
a/b=0.500000
PS C:\Users\DEBJIT GHOSAL\Desktop>
```

Program 2	
PROBLEM STATEMENT :	WAP to Convert Celsius to Fahrenheit. Answer should be rounded upto 2 decimal places.
ALGORITHM:	Step1:Take input in float as Cel,Faren Step2:Usng printf enter the temperature in celsius Step3:Use scanf to print the number Step4:Use the formula (cel*9/5)+32 Step5:printf the temperature in fahrenheit Step6:Stop

FLOWCHART:	

PROGRAM:	```c
	#include <stdio.h>
	int main()
	{
	float cel,faren;
	printf("Enter temerature in Celcius : ");
	scanf("%f",&cel);
	faren=(cel*9/5)+32;
	printf("The Temperature in Fahrenheit is %.2f",faren);
	
	return 0;
	}
	``

RESULT:

```
Windows PowerShell

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PS C:\Users\DEBJIT GHOSAL\Desktop> gcc tempp.c
PS C:\Users\DEBJIT GHOSAL\Desktop> ./a
Enter temerature in Celcius : 50
The Temperature in Fahrenheit is 122.00
PS C:\Users\DEBJIT GHOSAL\Desktop>
```
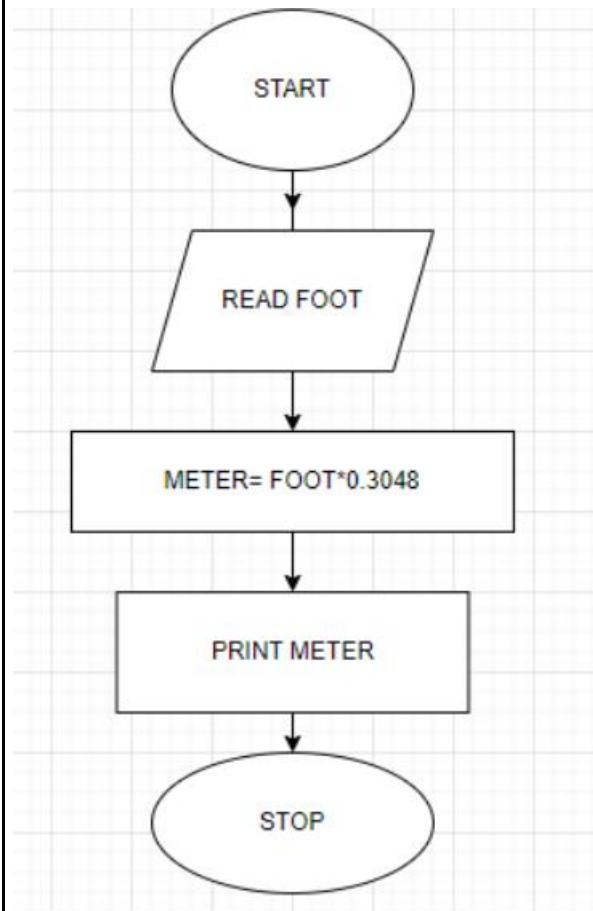
Program 3	
PROBLEM STATEMENT:	WAP to Convert Foot to Meter. Answer should be rounded upto 3 decimal places.
ALGORITHM:	Step1:Take input as float as foot,meter Step2:printf to enter foot Step3:use scanf to print the number Step4:use the formula meter = foot/0.3048 Step5:printf the foot in meter Step6:stop

FLOWCHART:	
| **PROGRAM:** | ```c
#include<stdio.h>
int main()
{
float foot,meter;
printf("Enter foot : ");
scanf("%f",&foot);
meter = foot/0.3048;
printf("The Foot in Meter is %.3f",meter);
return 0;
}
``` |

RESULT:

Program 4	
PROBLEM STATEMENT:	Write a C program to convert days into year, month and days.
ALGORITHM:	Step1:Take input as days,years,months,weeks,rdays Step2:Using printf enter the days Step3:Use scanf to print the number Step4:Use the formulas years=(days/365),months=(days-years*365)/30, weeks=(days%365%30)/7,rdays=days-(years*365)-(months*30)-(weeks*7) Step5:printf to get the final answer Step6:stop
FLOWCHART:	

PROGRAM:	#include <stdio.h>
	int main(){
	int days,years,months,weeks,rdays;
	printf("Enter the Days :");
	scanf("%d",&days);
	years=(days/365);
	months=(days-years*365)/30;
	weeks=(days%365%30)/7;
	rdays= days-(years*365)-(months*30)-(weeks*7);
	printf("%d years,%d months,%d weeks,%d
	rdays",years,months,weeks,rdays);
	return 0;
	}

RESULT:

```
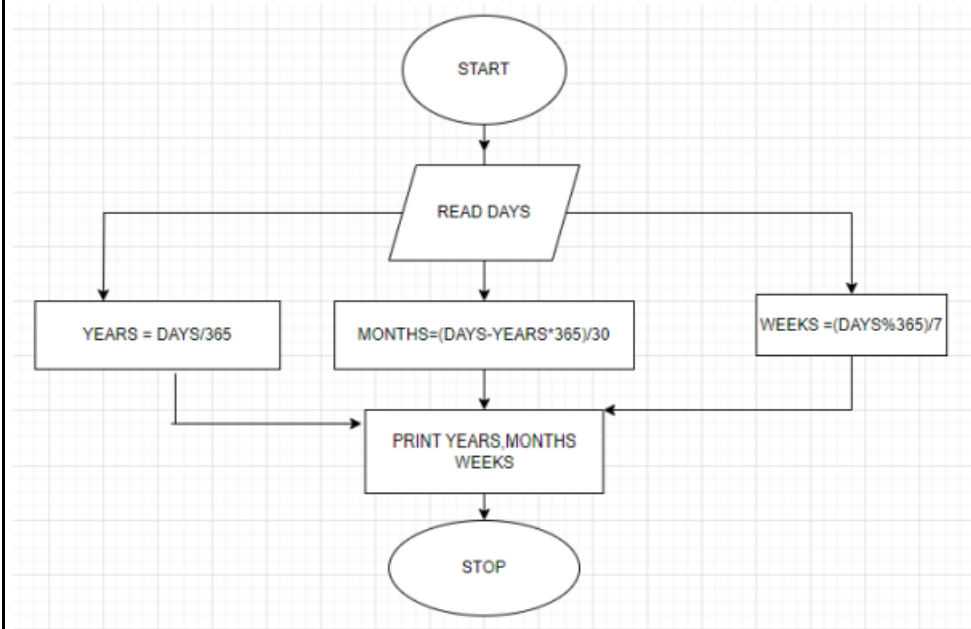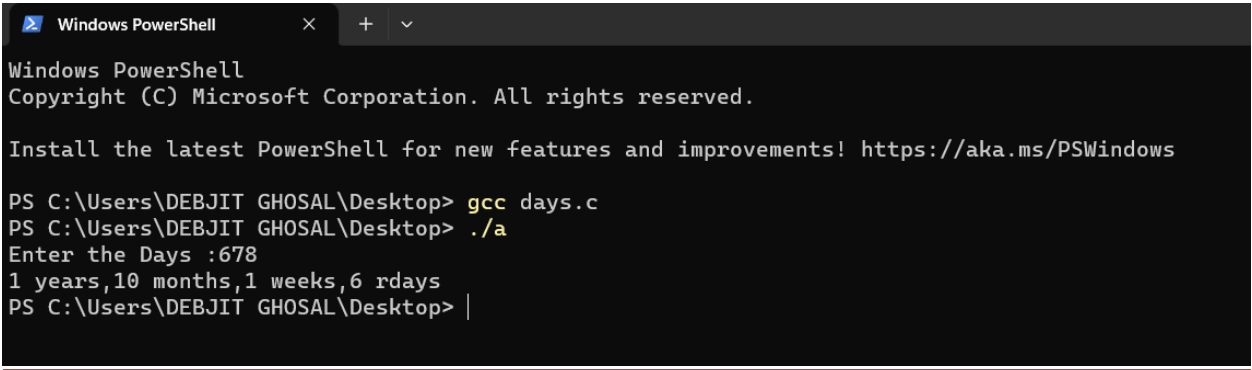Windows PowerShell        ×    +  ∨

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PS C:\Users\DEBJIT GHOSAL\Desktop> gcc days.c
PS C:\Users\DEBJIT GHOSAL\Desktop> ./a
Enter the Days :678
1 years,10 months,1 weeks,6 rdays
PS C:\Users\DEBJIT GHOSAL\Desktop> |
```

Program 5	
PROBLEM STATEMENT:	
ALGORITHM:	

FLOWCHART:	
PROGRAM:	
RESULT:	
CONCLUSION:	