

## PF LAB 5

### LAB TASK 02

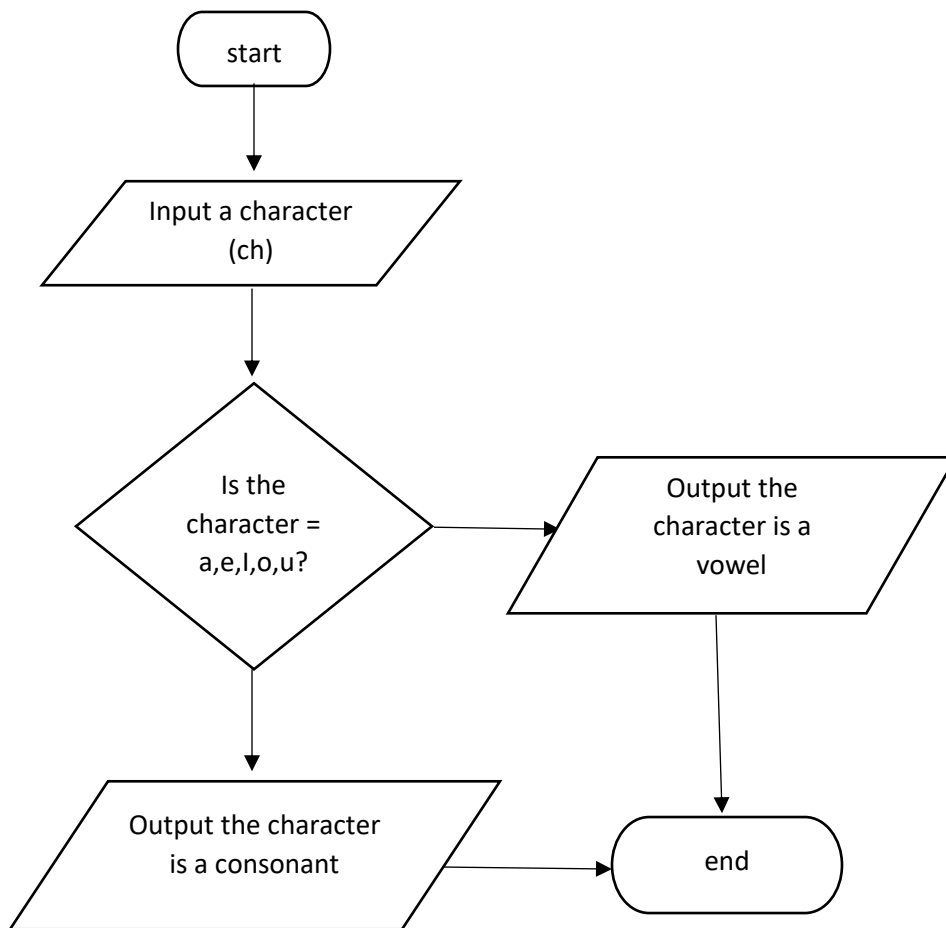
#### SOURCE CODE

```
#include<stdio.h>
int main()
{
    char ch;
    printf("Enter a character: ");
    scanf("%c",&ch);
    if(ch=='a')
        printf("The entered character is a vowel.");
    else if(ch=='e')
        printf("The entered character is a vowel.");
    else if(ch=='i')
        printf("The entered character is a vowel.");
    else if(ch=='o')
        printf("The entered character is a vowel.");
    else if(ch=='u')
        printf("The entered character is a vowel.");
    else
        printf("The entered character is a consonant.");
    return 0;
}
```

#### OUTPUT

```
Enter a character: a
The entered character is a vowel.
```

## FLOWCHART



## LAB TASK 04

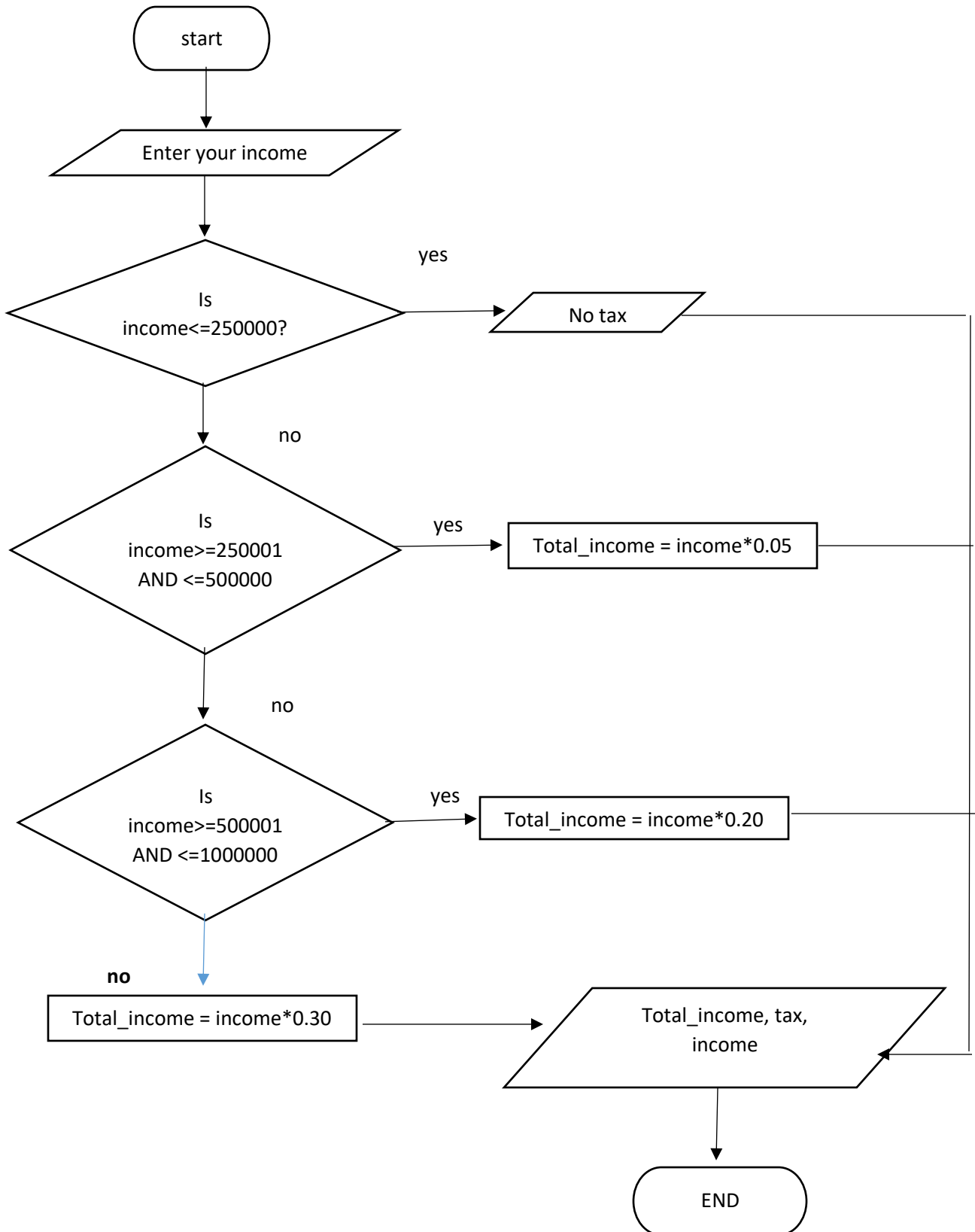
### SOURCE CODE

```
#include<stdio.h>
int main()
{
    float income, total_income,tax;
    printf("Enter your income: ");
    scanf("%f",&income);
    if (income <= 250000)
        printf("No tax will be applied.");
    else if (income >= 250001 && income <= 500000)
        total_income = income * 0.05;
    else if (income >= 500001 && income <= 1000000)
        total_income = income * 0.20;
    else
        total_income = income * 0.30;
    tax = income - total_income;
    printf("The net income after taxes is: %.2f\n",income);
    printf("The tax amount is: %.2f\n",tax);
    printf("The income after tax is: %.2f\n",total_income);
    return 0;
}
```

### OUTPUT

```
Enter your income: 500000
The net income after taxes is: 500000.00
The tax amount is: 475000.00
The income after tax is: 25000.00
```

# FLOWCHART



## LAB TASK 05

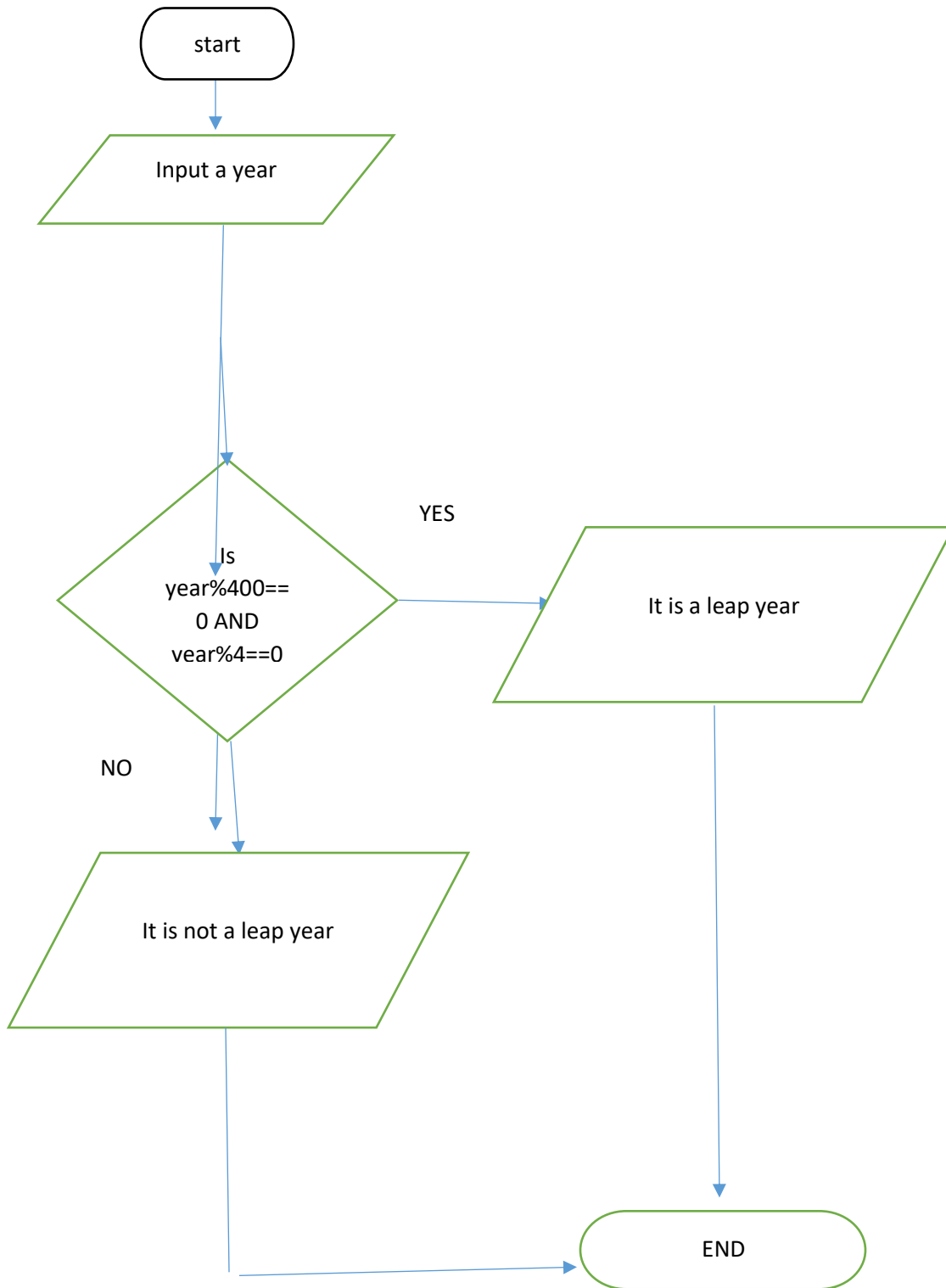
### SOURCE CODE

```
#include<stdio.h>
int main()
{
    int year;
    printf("Enter an year: ");
    scanf("%d",&year);
    if ( year%400==0 && year%4==0)
        printf("Entered year is a leap year.");
    else
        printf("Entered year is not a leap year.");
    return 0;
}
```

### OUTPUT

```
Enter an year: 2000
Entered year is a leap year.
```

# FLOWCHART



## LAB TASK 06

### SOURCE CODE

```
#include<stdio.h>
int main()
{
    int marks;
    printf("Enter your marks: ");
    scanf("%d",&marks);
    if (marks >= 90)
        printf("Grade A.");
    else if (marks >= 80 && marks < 90)
        printf("Grade B.");
    else if (marks >= 70 && marks < 80)
        printf("Grade C.");
    else if (marks >= 60 && marks < 70)
        printf("Grade D.");
    else
        printf("Grade F.");
    return 0;
}
```

### OUTPUT

```
Enter your marks: 90
Grade A.
```

# FLOWCHART

