

### Example 5.5

Develop a program to find the largest of the three given numbers.

Steps :

1. Input three numbers a, b, c
2. (find the larger of two numbers and store the result in new variable, big)  
IF (a > b) THEN big = a ELSE big = b
3. (Compare the big and third number, c, to get the result)  
IF (c > big) THEN big = c.
4. Output big
5. STOP

### PROGRAM

```
import java.util.Scanner;

class Largest5
{
    public static void main(String args[])
    {
        double a, b, c, big;

        System.out.println("Enter three numbers ");

        //Create Scanner object
        Scanner s = new Scanner(System.in);

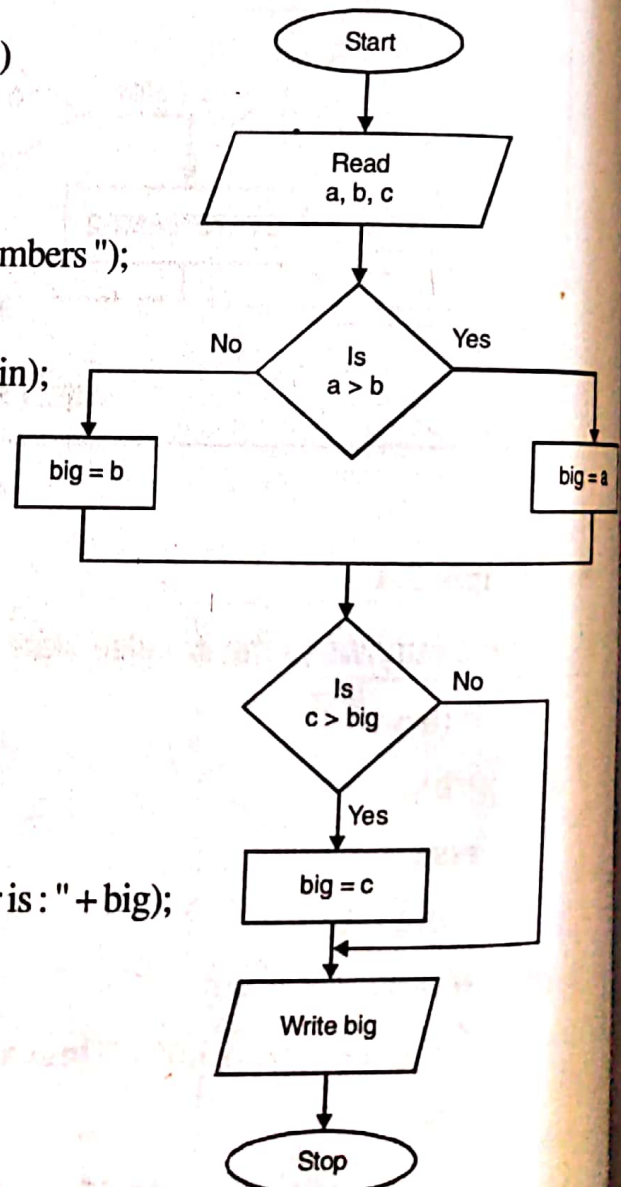
        a = s.nextDouble();
        b = s.nextDouble();
        c = s.nextDouble();

        if(a > b)
            big = a;
        else
            big = b;

        if(c > big) big = c;

        System.out.println("Largest number is : " + big);
    }
}
```

**Run:**  
Enter three numbers  
14.5 27.8 4.5  
Largest number is : 27.8



Marks	Grade
80 to 100	A
60 to 79	B
50 to 59	C
40 to 49	D
0 to 39	E

Write a program to display the grade of the student, given his marks.

### PROGRAM

```
import java.util.Scanner;

class Student
{
    public static void main(String args[])
    {
        int marks;
        char grade;

        System.out.println("Enter the marks ");

        //Create Scanner object
        Scanner s = new Scanner(System.in);

        marks = s.nextInt();

        if(marks>79) grade='A';
        else if(marks>59) grade='B';
        else if(marks>49) grade='C';
        else if(marks>39) grade='D';
        else grade='E';
        System.out.println("Grade is : " + grade);
    }
}
```

**Output :**  
Enter the marks  
57  
Grade is : C

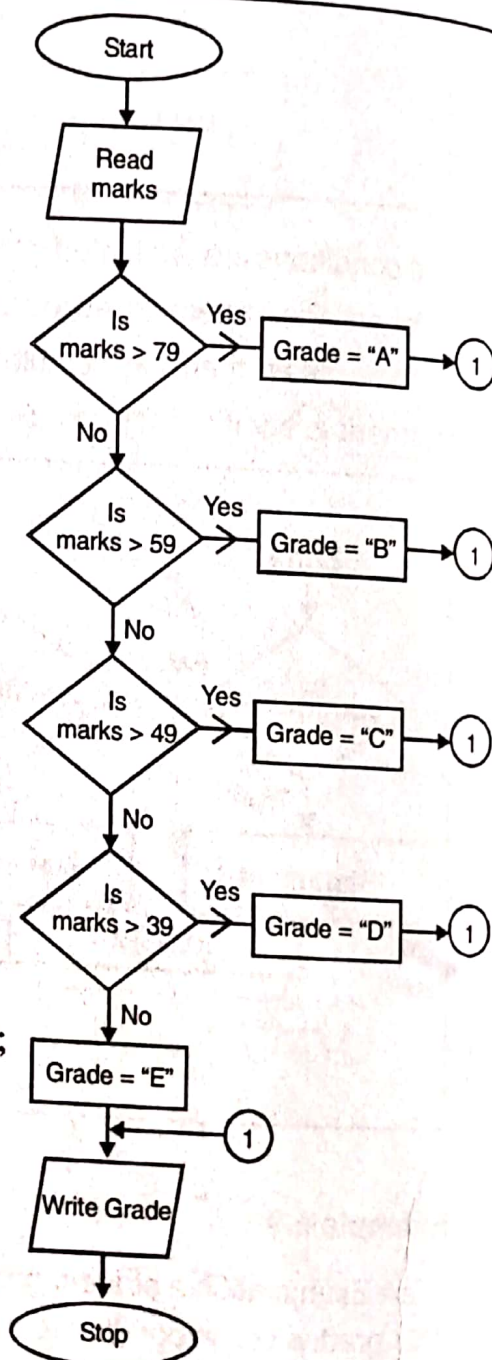


FIGURE 5.8

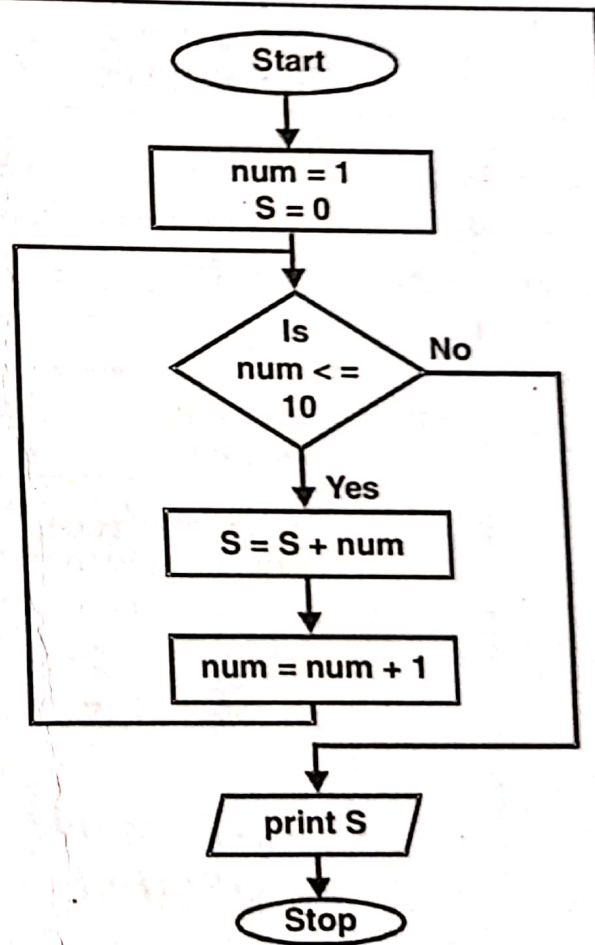
### Example 5.16

Write the program to find the sum of first 10 natural numbers using the while loop.

#### PROGRAM

```
class Natural
{
    public static void main(String args[])
    {
        int num = 1, s = 0;
        while (num <= 10)
        {
            s += num;
            ++num;
        }
        System.out.println("Sum of first 10 natural
        numbers is : " + s);
    }
}
```

**Output :**  
Sum of first 10 natural numbers is : 55





### Example 5.18

Write the program to find the sum of first 10 natural numbers using the do loop.

#### PROGRAM

```
class Natural
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        int num = 1, s = 0;
```

```
        do
```

```
        {
```

```
            s+=num; /  $S = S + num$ 
```

```
            ++num; /  $num = num + 1$ 
```

```
        }
```

```
        while (num <= 10);
```

```
        System.out.println("Sum of first 10
```

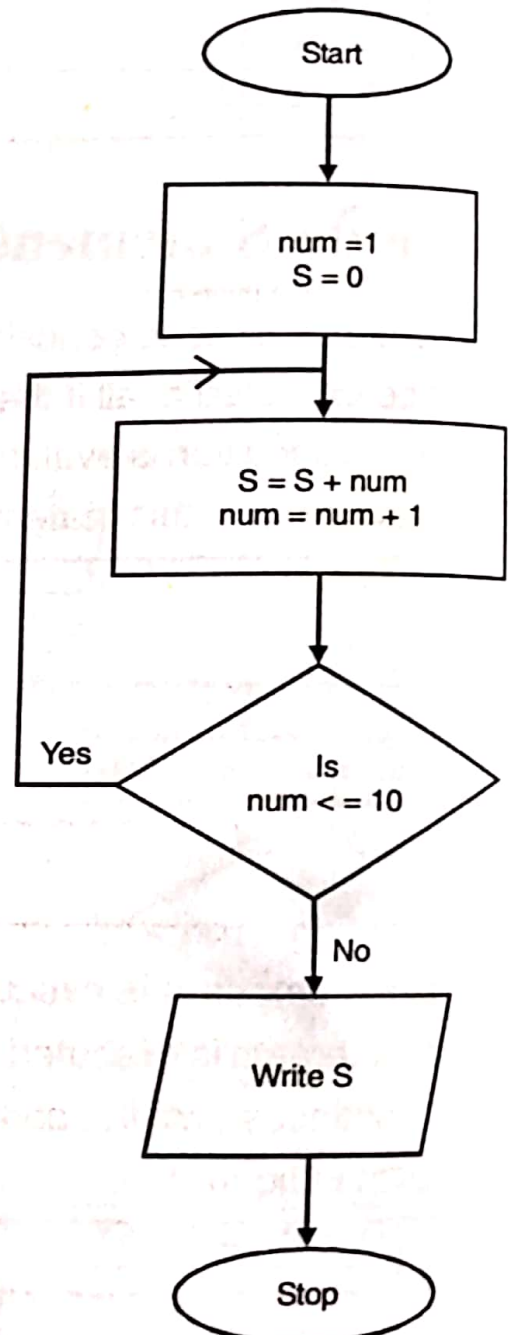
```
        natural numbers is : " + s);
```

```
    }
```

```
}
```

**Output :**

**Sum of first 10 natural numbers is : 55**



WAP to Find the first 10 natural numbers using  
PROGRAM FOR Loop

```
class Natural
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
int i,s=0;
```

```
for(i=1;i<=10;i++)
```

```
s += i;
```

```
System.out.println("Sum of first 10 natural  
numbers is : " + s);
```

```
}
```

```
}
```

**Output :**

**Sum of first 10 natural numbers is : 55**

