Conditional Statements Switch Statements. cond' state.

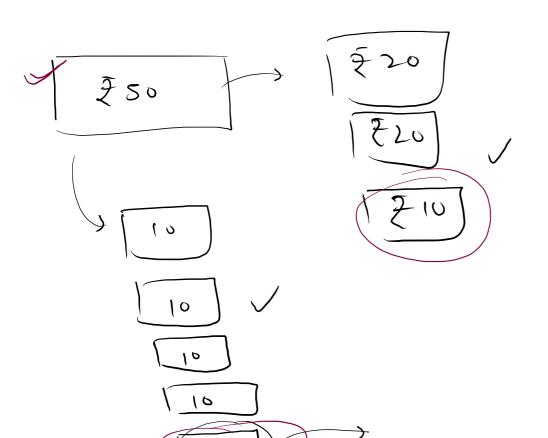
```
int n = 2;
                                                                        switch(n){
            if(n == 1){
                                                                                     ..out.println("one");
                System.out.println("one");
                                                                               break:
            else if(n == 2){
                                                                                     ..out.println("two");
                                                                               break;
                System.out.println("two");
                                                                                      m.out.println("three");
            else if(n == 3){
                                                                               break;
                System.out.println("three");
                                                                               System.out.println("none of the above");
            else{
                 System.out.println("none of the above")
19 }
                                                                                            we should apply?
                                                                         -> sint / char/ string.

-> why learn switch when

if else there
```

public static void main(String[] args) {

n=2



Juice. → fso Pen → F10

save time Hight Bly Delhi Train

# Grade the student-2

Problem Submissions Leaderboard Discussions

You are given a character **ch** which represents a grade of a student in a course. The valid grades are **A**, **B**, **C**, and **F**. Your task is to print a message based on the grade using a **switch statement**.

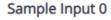
If the grade is A print Excellent!.

If the grade is **B** print **Well done!**.



If the grade is F, print Better luck next time!.

If the grade is not one of the valid options, print Invalid grade.





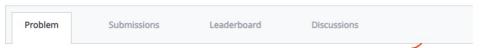
Sample Output 0

Well done!



```
import java.io.*;
2 import java.util.*;
  public class Solution {
5
6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           char grade = scn.next().charAt(0);
10
           switch(grade){
11
               case 'A':
12
                   System.out.println("Excellent!");
13
                   break;
14
               case 'B':
15
                   System.out.println("Well done!");
16
                   break;
17
               case 'C':
18
                   System.out.println("You passed!");
19
                   break;
20
               case 'F':
21
                   System.out.println("Better luck next time!");
22
                   break:
23
               default:
24
                   System.out.println("Invalid grade");
25
26
27
      }
```

# **Switch Calculator 1**



You are given integer inputs N a and b perform operations on a and b for different value of N like:-

If value of N is 10 -> a + b;

If value of N is 20 -> a - b;

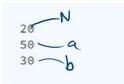
If value of **N** is **30** -> **a** \* **b**;

If value of N is 40 -> a % b;

If value of N is 50 -> a / b;

else print Enter a valid number.

### Sample Input 0



# switch(N)

## Sample Output 0

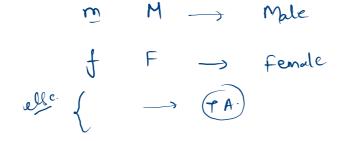
20

```
4 ▼public class Solution {
 5 •
        public static void main(String[] args) {
6
            Scanner scn = new Scanner(System.in);
 7
            int N = scn.nextInt();
8
            int a = scn.nextInt();
9
            int b = scn.nextInt();
10 *
            switch(N){
11
                case 10:
12
                     System.out.println(a + b);
                     break;
13
14
                case 20:
15
                     System.out.println(a - b);
16
                     break;
17
                case 30:
                     System.out.println(a * b);
18
19
                     break;
20
                case 40:
21
                     System.out.println(a % b);
22
                     break;
23
                case 50:
24
                     System.out.println(a / b);
25
                     break;
26
                default:
27
                     System.out.println("Enter a valid number");
28
29
30
```

### Male or Female

Problem Submissions Leaderboard Discussions

Take in a character input from the user, and print You are a male if Mor m is taken as input. And print You are a female if F or f is taken as input. And if some other character is taken as an input, then print Type again.



#### Sample Input 0



#### Sample Output 0

You are a male

```
1 import java.io.*;
 2 import java.util.*;
 3
  public class Solution {
 5
6
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           char ch = scn.next().charAt(0);
9
10
           if(ch == 'm' || ch == 'M'){
               System.out.println("You are a male");
11
12
13
           else if(ch == 'f' || ch == 'F'){
14
               System.out.println("You are a female");
15
16
           else{
17
               System.out.println("Type again");
18
19
20
21 }
```

```
public class Main
        public static void main(String[] args) {
             char ch = 'F';
             if(ch >= 'a' && ch <= 'z'){
                 System.out.println("small case");
             else if(ch >= 'A' && ch <= 'Z'){
10
11
12
13
14
                 System.out.println("capital case");
             }
        \mathbb{R}
15
```

# jumping character

Take in a character as an input and manipulate it as given under

1. Condition 1: If the entered character is a **small-case** character, then

A. If the character is from character **a** and till the character **w**, both **a** and **w** included, then Jump **three** times to **right** and print the resulting character as explained in the example below,

For eg. If **a** is given then print **d**, If **b** is given then print the character **e**, If **c** is given then print the character **f**, If **w** is given then print the character **z**.

- B. Else print the string Can't jump.
- 2. Condition 2: If the entered character is a capital-case character, then

A.If the character is from character **D** and till the character **Z**, both **D** and **Z** included, then Jump **three** times to **left** and print the resulting character as explained in the example below,

For eg. If **D** is given then print **A**, If **E** is given then print the character **B**, If **F** is given then print the character **C**, If **Z** is given then print the character **W**.

B. Else print the string Can't jump.



'g' ch='f'

elses 'x' 'y' 'z' - else — can't Jump.

- can't Jup

```
public class Main
public static void main(String[] args) {
    char ch = 'f';
    ch -= 2;
    System.out.println(ch);
}
```





```
4 public class Solution {
5
6
7
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
8
           char ch = scn.next().charAt(0);
9
10
           if(ch >= 'a' && ch <= 'z'){ //small case
11
               if(ch >= 'a' && ch <= 'w'){ //jumps
                   ch += 3;
12
13
                   System.out.println(ch);
14
               }else{
15
                   System.out.println("Can't jump");
16
17
18
19
           else if(ch >= 'A' && ch <= 'Z'){ //capital case
20
               if(ch >= 'D' && ch <= 'Z'){ //jumps
                   ch -= 3;
21
22
                   System.out.println(ch);
23
               }else{
24
                   System.out.println("Can't jump");
25
26
27
           }
28
29
```

# Small Capital or Digit

Problem

Submissions

Leaderboard

char { (3' to '9')

Sample Input 0



Sample Output 0

Small case

```
Take in a character as an input and then
```

- a. Print **Small case** f it is a small case character.
- b. Print Capital case if it is a capital case character.
- c. Print **Digit** if it is a digit.
- d. Print None is none of the above conditions follow.

```
1 import java.io.*;
 2 import java.util.*:
 4 public class Solution {
 5
6
       public static void main(String[] args) {
7
           Scanner scn = new Scanner(System.in);
8
9
           char ch = scn.next().charAt(0);
           if(ch >= 'a' && ch <= 'z'){
12
               System.out.println("Small case"):
13
           }else if(ch >= 'A' && ch <= 'Z'){</pre>
14
               System.out.println("Capital case");
           }else if(ch >= '0' && ch <= '9'){
16
               System.out.println("Digit");
           }else{
18
               System.out.println("None");
19
21
22 }
```

```
{ 'A' to 'Z'
```

23

```
Java) specific
```

```
6
       public static void main(String[] args) {
 7
           Scanner scn = new Scanner(System.in):
 9
           char ch = scn.next().charAt(0);
11
           if(Character.isUpperCase(ch)){
12
               System.out.println("Capital case");
13
14
           else if(Character.isLowerCase(ch)){
               System.out.println("Small case");
16
17
           else if(Character.isDigit(ch)){
18
               System.out.println("Digit");
19
           }else{
               System.out.println("None");
21
22
```

```
public class Main
         public static void main(String[] args) {
             int age = 2;
             char val = '2';
            String s = "2";
 11
             System.out.println(age + 5);
             System.out.println(val + 5);
 12
 13
             System.out.println(s + 5);
 14
 15 }
v / 🌣 🧏
```