Revision.

↳ _char_ c1 = 'A'; ——→ Alphabets . A to z

Digits → '0' - '9'

Special. → '@' '#' ''

↳ (Strings) ——→ combination of char of

String (name) = "Aman" ~

.length()
.charAt(idx);

.next()

(Aman) Srivastava

i/p char.

.next().charAt(0);

.nextLine()

(Aman Srivastava)

"Aman"
⊙ 1 2 3

A

Grade the student-2

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 **C**, print **You passed!**.

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

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

A
B
C
F

Case A:
↳ Excellent!

Case B:
↳ well

```java
public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        //input for the char
        char ch = scn.next().charAt(0);

        switch(ch){
            case 'A':
                System.out.println("Excellent!");
                break;
            case 'B':
                System.out.println("Well done!");
                break;
            case 'C':
                System.out.println("You passed!");
                break;
            case 'F':
                System.out.println("Better luck next time!");
                break;
            default:
                System.out.println("Invalid grade");
        }

    }
}
```

```
11        char ch = s.charAt(0);
12
```

$s = "Nawab"$
$\quad\quad\; 0\,1\,2\,3\,4$

$s.charAt(2)$

'N'

Switch Calculator 1

Problem	Submissions	Leaderboard	Discussions

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.

work

switch (N){

case 10:

20

30

40

50

} else default.

a   b

i/ps. { N
          a   (Integer)
          b

B/o. → 5 lines.

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int N = scn.nextInt();
        int a = scn.nextInt();
        int b = scn.nextInt();


        switch(N){
            case 10:
                System.out.println(a+b);
                break;
            case 20:
                System.out.println(a-b);
                break;
            case 30:
                System.out.println(a*b);
                break;
            case 40:
                System.out.println(a%b);
                break;
            case 50:
                System.out.println(a/b);
                break;
            default:
                System.out.println("Enter a valid number");
        }
    }
}
```

Male or Female

Take in a **ch** as a character input from the user, and print **You are a male** if M or **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**.

i/p { ch

You are a Male
↳ 'M' or 'm'

You are a female
↳ 'F' or 'f'

(Algo)

Steps.

1. i/p

2.   if (ch == 'm' or 'm')
    ↳

      else if (F or f)
        ↳

       else) ___

```java
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8
9
10        char ch = scn.next().charAt(0);
11
12        if(ch == 'M' || ch == 'm'){
13            System.out.println("You are a male");
14        }
15        else if(ch == 'F' || ch == 'f'){
16            System.out.println("You are a female");
17        }
18        else{
19            System.out.println("Type again");
20        }
21
22
23    }
24 }
```

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**.

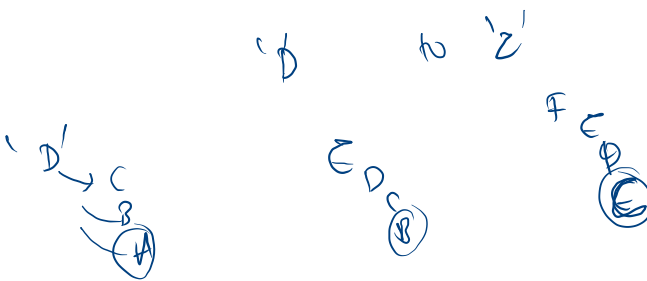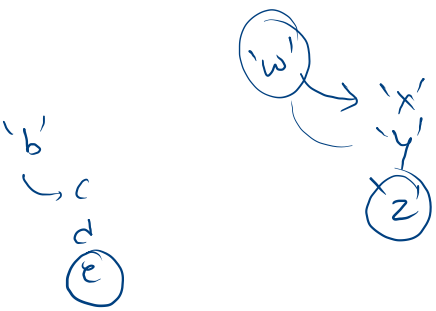2. Condition 2: If the entered character is a **capital-case** character, then

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**.

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        char ch = scn.next().charAt(0);

        if(ch >= 'a' && ch <= 'z'){
            //A.
            if(ch >= 'a' && ch <= 'w'){
                ch += 3;
                System.out.println(ch);
            }
            else{
                System.out.println("Can't jump");
            }
        }

        else if( ch >= 'A' && ch <= 'Z'){
            if(ch >= 'D' && ch <= 'Z'){
                ch -= 3;
                System.out.println(ch);
            }
            else{
                System.out.println("Can't jump");
            }
        }


    }
}
```

Small Capital or Digit

Problem	Submissions	Leaderboard	Disc

Take in a character as an input and then

a. Print **Small case** if 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.

ch →i/p

'a' / 'b' / 'k' / 'n' / 'x'

↳ Small case.

'A' / 'L' / 'P' / 'Q'

↳ Capital case

Digit.

'0' to '9'

↳Digit

else → None.

$ch \geq$ '0' && $ch \leq$ '9'

↳ Digit.

"M"

'M'

'q'

'q"

q

lint

maths

Print character at 3rd index

length ≥ 4

↳ .charAt (?)

Problem	Submissions	Leaderboard	Discussions

You will be given a string as an input, and

a. If the length of the string is greater than or equal to **4**, then print the character at **3rd index**.

b. Otherwise, print **Small string**

Eg. If the input string is **abcdef**, then print **d**.

else
↳ ss.

```java
1  import java.io.*;
2  import java.util.*;
3
4  public class Solution {
5
6      public static void main(String[] args) {
7          /* Enter your code here. Read input from S
8          Scanner scn = new Scanner(System.in);
9          String s = scn.next();
10
11         if(s.length() >= 4){
12             System.out.println(s.charAt(3));
13         }
14         else{
15             System.out.println("Small string");
16         }
17     }
18 }
```

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        char ch = 'D';

        ch = Character.toLowerCase(ch);

        System.out.println(ch);
    }
}
```

ch = 'D'

→ 'D' to 'd'

```
import java.util.*;

public class Main
{
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        char ch = 'n';

        ch = Character.toUpperCase(ch);

        System.out.println(ch);
    }
}
```

'n' to 'N'