

PYTHON

```
1 while True:
2     print("1. Convert marks.")
3     print("2. Exit.")
4     uinput = int(input("Choose option (1 or 2): "))
5     if uinput == 1:
6         marks = int(input("Enter marks: "))
7         if marks >= 90 and marks <= 100:
8             print(f"The grade for {marks} is A.")
9             print("")
10        elif marks >= 87 and marks <= 89:
11            print(f"The grade for {marks} is A-.")
12            print("")
13        elif marks >= 84 and marks <= 86:
14            print(f"The grade for {marks} is B+.")
15            print("")
16        elif marks >= 80 and marks <= 83:
17            print(f"The grade for {marks} is B.")
18            print("")
19        elif marks >= 77 and marks <= 79:
20            print(f"The grade for {marks} is B-.")
21            print("")
22        elif marks >= 74 and marks <= 76:
23            print(f"The grade for {marks} is C+.")
24            print("")
25        elif marks >= 70 and marks <= 73:
26            print(f"The grade for {marks} is C.")
27            print("")
28        elif marks >= 67 and marks <= 69:
29            print(f"The grade for {marks} is C-.")
30            print("")
31        elif marks >= 64 and marks <= 66:
32            print(f"The grade for {marks} is D+.")
33            print("")
34        elif marks >= 62 and marks <= 63:
35            print(f"The grade for {marks} is D.")
36            print("")
37        elif marks >= 60 and marks <= 61:
38            print(f"The grade for {marks} is D-.")
39            print("")
40        elif marks >= 0 and marks <= 59:
41            print(f"The grade for {marks} is F.")
42            print("")
43        elif marks > 100 and marks < 0:
44            print("Invalid marks")
45            print("")
46    elif uinput == 2:
47        print("Goodbye!")
48        break
```

OUTPUT:

```
1. Convert marks.
2. Exit.
Choose option (1 or 2): 1
Enter marks: 94
The grade for 94 is A.

1. Convert marks.
2. Exit.
Choose option (1 or 2): 1
Enter marks: 87
The grade for 87 is A-.

1. Convert marks.
2. Exit.
Choose option (1 or 2): 1
Enter marks: 76
The grade for 76 is C+.

1. Convert marks.
2. Exit.
Choose option (1 or 2): 1
Enter marks: 64
The grade for 64 is D+.

1. Convert marks.
2. Exit.
Choose option (1 or 2): 1
Enter marks: 50
The grade for 50 is F.

1. Convert marks.
2. Exit.
Choose option (1 or 2): 2
Goodbye!

=== Code Execution Successful ===
```

JAVA

```
1 import java.io.*;
2 import java.util.Scanner;
3
4
5 class GFG {
6     public static void main(String[] args)
7     {
8         while (true) {
9             Scanner num = new Scanner(System.in);
10            System.out.println("1. Convert marks.");
11            System.out.println("2. Exit.");
12            System.out.print("Choose option(1 or 2): ");
13            int input = num.nextInt();
14            if (input == 1){
15                System.out.print("Enter marks: ");
16                int marks = num.nextInt();
17                if (marks >= 90 && marks <= 100) {
18                    System.out.println("The grade for " + marks + " is A.");
19                    System.out.println("");
20                }
21                else if (marks >= 87 && marks <= 89){
22                    System.out.println("The grade for " + marks + " is A-.");
23                    System.out.println("");
24                }
25                else if (marks >= 84 && marks <= 86){
26                    System.out.println("The grade for " + marks + " is B+.");
27                    System.out.println("");
28                }
29                else if (marks >= 80 && marks <= 83){
30                    System.out.println("The grade for " + marks + " is B.");
31                    System.out.println("");
32                }
33                else if (marks >= 77 && marks <= 79){
34                    System.out.println("The grade for " + marks + " is B-.");
35                    System.out.println("");
36                }
37                else if (marks >= 74 && marks <= 76){
38                    System.out.println("The grade for " + marks + " is C+.");
39                    System.out.println("");
40                }
41                else if (marks >= 70 && marks <= 73){
42                    System.out.println("The grade for " + marks + " is C.");
43                    System.out.println("");
44                }
45                else if (marks >= 67 && marks <= 69){
46                    System.out.println("The grade for " + marks + " is C-.");
47                    System.out.println("");
48                }
49                else if (marks >= 64 && marks <= 66){
50                    System.out.println("The grade for " + marks + " is D+.");
51                    System.out.println("");
52                }
53                else if (marks >= 62 && marks <= 63){
54                    System.out.println("The grade for " + marks + " is D.");
55                    System.out.println("");
56                }
57                else if (marks >= 60 && marks <= 61){
58                    System.out.println("The grade for " + marks + " is D-.");
59                    System.out.println("");
60                }
61                else if (marks >= 0 && marks <= 59){
62                    System.out.println("The grade for " + marks + " is F.");
63                    System.out.println("");
64                }
65                else{
66                    System.out.println("Invalid input!");
67                    System.out.println("");
68                }
69            }
70            else if (input == 2){
71                System.out.println("Goodbye!");
72                break;
73            }
74            else{
75                System.out.println("Invalid input.");
76                System.out.println("");
77            }
78        }
79    }
80 }
```

Output

```
java -cp /tmp/KaNQZaZUNZ/GFG
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 94
The grade for 94 is A.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 81
The grade for 81 is B.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 78
The grade for 78 is B-.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 70
The grade for 70 is C.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 61
The grade for 61 is D-.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 1
Enter marks: 52
The grade for 52 is F.
```

```
1. Convert marks.
2. Exit.
Choose option(1 or 2): 2
Goodbye!
```

```
=== Code Execution Successful ===
```