

Algorithm

1. Start
2. Declare the variable CGPA and Num_Students
3. Get the input for CGPA and Num_Students
4. Start loop
5. If CGPA is between 5.0-6.0 then Grade is E
6. Elif CGPA is between 6.1-7.0 then Grade is D
7. Elif CGPA is between 7.1-7.5 then Grade is C
8. Elif CGPA is between 7.6-8.0 then Grade is B
9. Elif CGPA is between 8.1-8.5 then Grade is B+
10. Elif CGPA is between 8.6-9.0 then Grade is A
11. Elif CGPA is between 9.1-9.5 then Grade is A+
12. Else CGPA is between 9.6-10.0 then Grade is S
13. Stop loop
14. Stop

Pseudocode

startFn

void main()

 int Num_Students

 input (Num_Students)

 float CGPA

 int i

 for (i=0; i<Num_Students; i=i+1)

 input (CGPA)

 if (6>=CGPA && CGPA>=5)

 print ("Grade is E")

 else

 if (7>=CGPA && CGPA>=6.1)

 print ("Grade is D")

 else

 if (7.5>=CGPA && CGPA>=7.1)

 print ("Grade is C")

 else

 if (8>=CGPA && CGPA>=7.6)

 print ("Grade is B")

 else

 if (8.5>=CGPA && CGPA>=8.1)

 print ("Grade is B+")

 else

 if (9>=CGPA && CGPA>=8.6)

 print ("Grade is A")

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else
    if (9.5>=CGPA && CGPA>=9.1)
        print ("Grade is A+")
    else
        if (10.0>=CGPA && CGPA>=9.6)
            print ("Grade is S")
        endif
    endif
endif
endif
endif
endif
endif
endLoop
endFn
```