

Q4 Answer

```
#include <stdio.h>

int main(){

float CA=10,SE=10,Total;

    // printf("Enter your CA marks:\n");

    // scanf("%f",&CA);

    // printf("Enter your SE marks:\n");

    // scanf("%f",&SE);

Total=CA+SE;

if (Total>=50){ //Check for Passing

    if((CA>=20 && CA<=50) && (SE>=20 && SE<=50)) //CA and SE both Passed
    {
        printf("The student has passed in mathematics with a Total Marks: %.2f \n", Total );
    }

    if ((CA>=20 && CA<=50) && (SE<20 && SE>=0)) //CA Passed but SE Failed
    {
        printf("Passed in CA but Failed in SE, hence the student has FAILED, although
your Total Marks is: %.2f \n", Total);
    }

    if ((CA<20 && CA>=0) && (SE>=20 && SE <= 50)) //CA Failed but SE Passed
    {
        printf("Failed in CA but Passed in SE, hence the student has FAILED, although
your Total Marks is: %.2f \n", Total);
    }

    if (CA>50) //CA Marks should not exceed 50
    {
        printf("Hey Fool! Your CA should not exceed 50 Marks! Your CA was: %.2f \n",
CA);
    }

    if (SE>50) //SE Marks should not exceed 50
```

```

        {
            printf("\nHey Fool! Your SE should not exceed 50 Marks! Your SE was: %.2f\n",
                SE);
        }
    }

else{ //Check for Failing and other Negative Marking

    if (CA<0) //CA has to be Non-Negative
    {
        printf("Hey Fool Your CA should NOT be a Negative Mark! It was: %.2f\n", CA);
    }

    if (SE<0) //SE has to be Non-Negative
    {
        printf("Hey Fool Your SE should NOT be a Negative Mark! It was: %.2f\n", SE);
    }

    if (CA>0 && SE>0) //CA and SE both Positive but Less Than 50. The student fails
    {
        printf("student has failed in mathematics as the Total Mark is Less Than 50 i.e: %.2f\n", Total);
    }

    }
    return 0;
}

```