

1)

```
#include <stdio.h>
#include <stdlib.h>
```

```
struct Student {
```

```
    unsigned int age;
```

```
    unsigned int marks;
```

```
    bool Valid;
```

```
    bool qualify;
```

```
    char name name[50];
```

```
};
```

```
int main() {  
    int t;  
    printf("Enter number of students:\n");  
    scanf("%d", &t);
```

```
    struct Student students[t];
```

```
    int length totalStudents = sizeof(students)/sizeof(struct Student);  
    int i=0;
```

```
    for (i=0; i < totalStudents; i++) {
```

```
        printf("Enter name of student %d: ", i+1);
```

```
        scanf("%s", students[i].name);
```

```
        printf("Enter age:\n");
```

```
        scanf("%u", &students[i].age);
```

```
        printf("Enter marks:\n");
```

```
        scanf("%u", &students[i].marks);
```

P T O

```
if (students[i].age > 20 && students[i].marks <= 100){  
    print("Data is valid");  
    students[i].valid = true
```

```
} else {
```

```
    print("Invalid data");  
    students[i].valid = false;
```

```
}
```

```
if (students[i].valid && students[i].marks >= 65){  
    students[i].qualify = true;
```

```
}
```

```
}
```

```
for(i=0; i < total Students; i++){
```

```
    if (students[i].qualify){
```

```
        printf("%s is qualified", students[i].name);
```

```
    }
```

```
return 0;
```