

Q1

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

```
#include<string.h>
```

```
int main(){
```

```
    char arr[10];
```

```
    printf("Enter a string :");
```

```
    scanf("%s",arr);
```

```
    int i,j,k;
```

```
    for( i=0;arr[i]!='\0';i++){
```

```
        for( j=i+1;arr[j]!='\0';){
```

```
            if(arr[i]==arr[j]){
```

```
                for( k=j;arr[k]!='\0';k++)
```

```
                    arr[k]=arr[k+1];
```

```
            }else{
```

```
                j++;
```

```
        }
```

```
    }
```

```
}
```

```
    printf("after removing duplicate character: %s ",arr);
```

```
}
```

```
PS C:\Users\AJIT\Desktop\Tests\Test9> cd "c:\Users\AJIT\Desktop\Tests\Test9\" ; if ($?) { gcc
c Q1.c -o Q1 } ; if ($?) { .\Q1 }
Enter a string :Engineering
after removing duplicate character: Engier
PS C:\Users\AJIT\Desktop\Tests\Test9>
```

Q2

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

```
#include<string.h>
```

```
int main() {
```

```
    int age[5], discount = 0;
```

```
    int amount = 500, totalAmount = 0;
```

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

```
    for (int i = 0; i < 5; i++) {
```

```
        scanf("%d", &age[i]);
```

```
        if (age[i] > 59) {
```

```
            discount = amount * 0.5;
```

```
            totalAmount += amount - discount;
```

```
            printf("Discounted amount: %d\n", amount - discount);
```

```
        } else if (age[i] >= 12 && age[i] <= 59) {
```

```
            totalAmount += amount;
```

```
            printf("No discount: %d\n", amount);
```

```
        } else {
```

```
            discount = amount * 0.3;
```

```
            totalAmount += amount - discount;
```

```
            printf("Discounted amount: %d\n", amount - discount);
```

```
        }
```

```
    }
```

```
    printf("Total ticket amount: %d\n", totalAmount);
```

```
    return 0;
```

```
}
```

```
PS C:\Users\AJIT\Desktop\Tests\Test9> cd C:\Users\AJIT\Desktop\Tests\Test9\ ; if ($?) {  
c Q2.c -o Q2 } ; if ($?) { .\Q2 }  
Enter age: 10  
Discounted amount: 351  
30  
No discount: 500  
50  
No discount: 500  
60  
Discounted amount: 250  
1  
Discounted amount: 351  
Total ticket amount: 1952  
PS C:\Users\AJIT\Desktop\Tests\Test9> 
```