```
Q1
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <string.h>
typedef struct {
  char userid[20];
  char password[20];
} User;
int main() {
  User user = {"admin", "1234"};
  char inputUser[20], inputPass[20];
  int otp, enteredOtp;
  srand(time(0));
  printf("Enter User ID: ");
  scanf("%s", inputUser);
  printf("Enter Password: ");
  scanf("%s", inputPass);
  if (strcmp(user.userid, inputUser) == 0 && strcmp(user.password, inputPass) == 0) {
    otp = (rand() % 9000) + 1000;
    printf("\nYour OTP is: %d\n", otp);
    printf("Enter the OTP: ");
    scanf("%d", &enteredOtp);
```

```
if (enteredOtp == otp) {
      printf("\nLogin Successful!\n");
   } else {
      printf("\nIncorrect OTP. Login Failed.\n");
    }
 } else {
    printf("\nInvalid credentials. Login Failed.\n");
  }
  return 0;
}
 PS C:\Users\AJIT\Desktop\C\Tests\Test8> cd "c:\Users\AJIT\Desktop\C\Tests\Te
    st8\"; if ($?) { gcc Q1.c -0 Q1 }; if ($?) { .\Q1 }
    Enter User ID: admin
   Enter Password: 1234
   Your OTP is: 2898
   Enter Password: 1234
   Your OTP is: 2898
   Your OTP is: 2898
   Your OTP is: 2898
    Enter the OTP: 2898
   Login Successful!
```

```
Q2
#include<stdio.h>
#include<string.h>
int main(){
  char str[10];
  printf("Enter string :");
  for(int i=0;i<5;i++)
  scanf("%c",&str[i]);
  int len=strlen(str);
  printf("Original String :");
  for(int i=0;i<len;i++){</pre>
   printf("%c",str[i]);
  }
printf("\n");
  printf("Reversed String :");
  for(int i=len-1;i>=0;i++){
   printf("%c",str[i]);
  }
printf("\n");
 return 0;
}
```

```
PS C:\Users\AJIT\Desktop\C\Tests\Test8> cd "c:\Users\AJIT\Desktop\C\Tests\Te
st8\" ; if ($?) { gcc Q22.c -o Q22 } ; if ($?) { .\Q22 }
Enter string: ajit
Original String: ajit
Reversed String: tija
PS C:\Users\AJIT\Desktop\C\Tests\Test8>
```