ROLL NUMBER: 25K-0892   **SECTION: BCS-1K**

Q5

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

int main() {
    char msg[100], backup[100];

    printf("Enter a short message: ");
    fgets(msg, sizeof(msg), stdin);

    strcpy(backup, msg);

    printf("Original: %s", msg);
    printf("Backup: %s", backup);
    return 0;
}
```

OUTPUT:

```
Enter a short message: Computer Science From Karachi
Original: Computer Science From Karachi
Backup: Computer Science From Karachi
PS C:\Coding\C\Uni_Work> 
```

Q6

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

int main() {
    char user1[50], user2[50];

    printf("Enter first username: ");
    scanf("%s", user1);

    printf("Enter second username: ");
    scanf("%s", user2);

    strcat(user1, " ");

    printf("Combined Username: %s", strcat(user1,user2));
    return 0;
}
```
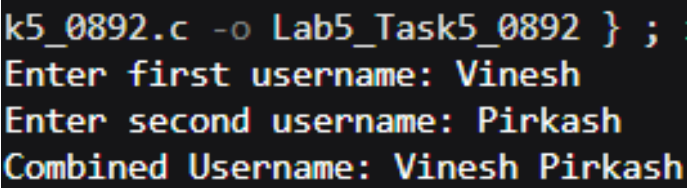
OUTPUT:

```
k5_0892.c -o Lab5_Task5_0892 } ;
Enter first username: Vinesh
Enter second username: Pirkash
Combined Username: Vinesh Pirkash
```

Q7

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

int main() {
   char pass1[50], pass2[50];

   printf("Enter password: ");
   scanf("%s", pass1);

   printf("Confirm password: ");
   scanf("%s", pass2);

   if(strcmp(pass1, pass2) == 0)
      printf("Password Matched");
   else
      printf("Passwords do not match");

   return 0;
}
```
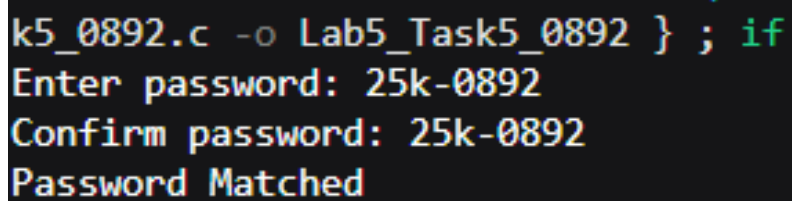
OUTPUT:

```
k5_0892.c -o Lab5_Task5_0892 } ; if
Enter password: 25k-0892
Confirm password: 25k-0892
Password Matched
```

Q8

```c
#include <stdio.h>

int main() {
    char names[3][20];
    int i;

    for(i = 0; i < 3; i++) {
        printf("Enter name %d: ", i+1);
        scanf("%s", names[i]);
    }

    printf("\nStudents:\n");
    for(i = 0; i < 3; i++)
        printf("%s\n", names[i]);

    return 0;
}
```

OUTPUT:

```
Enter name 1: Vinesh
Enter name 2: Omar
Enter name 3: Naresh

Students:
Vinesh
Omar
Naresh
```

Q9

```c
#include <stdio.h>

int main() {
    char names[3][20];
    int i, j;

    for(i = 0; i < 3; i++) {
        printf("Enter name %d: ", i+1);
        scanf("%s", names[i]);
    }

    for(i = 0; i < 3; i++) {
        printf("Characters in Name %d:\n", i+1);
        for(j = 0; names[i][j] != '\0'; j++) {
            printf("%c ", names[i][j]);
        }
        printf("\n");
    }

    return 0;
}
```

OUTPUT:

```
Enter name 1: Vinesh
Enter name 2: Omar
Enter name 3: Naresh
Characters in Name 1:
V i n e s h
Characters in Name 2:
O m a r
Characters in Name 3:
N a r e s h
```

Q10

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

int main() {
    char names[5][20];
    char search[20];
    char temp[20];
    int i, found = 0;
    FILE *fp;

    for(i = 0; i < 5; i++) {
        printf("Enter name %d: ", i+1);
        scanf("%s", names[i]);
    }

    fp = fopen("names.txt", "w");
    for(i = 0; i < 5; i++)
        fprintf(fp, "%s\n", names[i]);
    fclose(fp);

    printf("Enter name to search: ");
    scanf("%s", search);

    fp = fopen("names.txt", "r");
    while(fscanf(fp, "%s", temp) != EOF) {
        if(strcmp(temp, search) == 0) {
            found = 1;
            break;
        }
    }
    fclose(fp);

    if(found)
        printf("Name found in directory");
    else
        printf("Name not found");

    return 0;
}
```

OUTPUT:

```
Enter name 1: Vinesh
Enter name 2: Ali
Enter name 3: Alex
Enter name 4: Omar
Enter name 5: Naresh
Enter name to search: Alex
Name found in directory
```