

Name: Ammar Khan

Roll No: 25K-0842

PF Lab 4 (7 Tasks)

Task 4:

```
Lab_Tasks3.c
1  #include<stdio.h>
2
3  int main () {
4
5      int marks;
6
7      printf("Enter your marks: ");
8      scanf("%d", &marks);
9      if (marks >= 90)
10     {
11         printf("Your grade is A");
12     }
13     else if ((marks >= 80) && (marks <= 89))
14     {
15         printf("Your grade is B");
16     }
17     else if ((marks >= 70) && (marks <= 79))
18     {
19         printf("Your grade is C");
20     }
21     else if ((marks >= 60) && (marks <= 69))
22     {
23         printf("Your grade is D");
24     }
25     else if (marks < 60)
26     {
27         printf("You got an F");
28     }
29
30     return 0;
31
32 }
```

```
C:\Users\Ammar Khan\OneDrive\Documents\Uni\C Language\Lab Tasks.exe
Enter your marks: 48
You got an F
-----
Process exited after 7.753 seconds with return value 0
Press any key to continue . . .
```

Name: Ammar Khan

Roll No: 25K-0842

Code:

```
#include<stdio.h>

int main () {

int marks;

printf("Enter your marks: ");

scanf ("%d", &marks);

if (marks >= 90) {

printf("Your grade is A");

}

else if ((marks >= 80) && (marks <= 89)) {

printf("Your grade is B");

}

else if ((marks >= 70) && (marks <= 79)) {

printf("Your grade is C");

{

else if ((marks >= 60) && (marks <= 69)) {

printf ("Your grade is D");

}

else if (marks < 60) {

printf ("You got an F");

}

return 0;

}
```

Name: Ammar Khan

Roll No: 25K-0842

(Task 5 done on next page as i missed it)

Task 6:

```
#include<stdio.h>

int main () {

int num1, num2, result;
char opp;

printf("Enter a number: ");
scanf(" %d", &num1);
printf("\n Enter another number: ");
scanf(" %d", &num2);
printf("\n Enter an operator: ");
scanf(" %c", &opp);

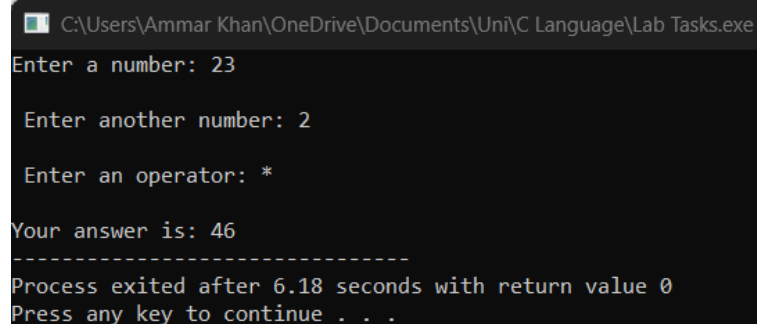
switch (opp)
{
    case '+':
        result = (num1 + num2);
        printf("\nYour answer is: %d", result);
        break;

    case '-':
        result = (num1 - num2);
        printf("\nYour answer is: %d", result);
        break;

    case '*':
        result = (num1 * num2);
        printf("\nYour answer is: %d", result);
        break;

    case '/':
        result = (num1 / num2);
        printf("\nYour answer is: %d", result);
        break;

}
return 0;
}
```



```
C:\Users\Ammar Khan\OneDrive\Documents\Uni\C Language\Lab Tasks.exe
Enter a number: 23

Enter another number: 2

Enter an operator: *

Your answer is: 46
-----
Process exited after 6.18 seconds with return value 0
Press any key to continue . . .
```

Name: Ammar Khan

Roll No: 25K-0842

Code:

```
#include<stdio.h>

int main () {
int num1, num2, result;
char opp;
printf("Enter a number: ");
scanf(" %d", &num1);
printf("\n Enter another number: ");
scanf (" %d", &num2);
printf("\n Enter an operator: ");
scanf (" %c", &opp);
switch (opp)
{
case '+':
result = (num1 + num2);
printf("\nYour answer is: %d", result);
break;
case '-':
result = (num1 - num2);
printf("\nYour answer is: %d", result);
break;
case '*':
result = (num1 * num2);
printf("\nYour answer is: %d", result);
break;
case '/':
result = (num1 / num2) ;
printf("\nYour answer is: %d", result);
break;
}
return 0;
}
```

Name: Ammar Khan

Roll No: 25K-0842

Task 5:

```
#include<stdio.h>

int main () {

int num1;

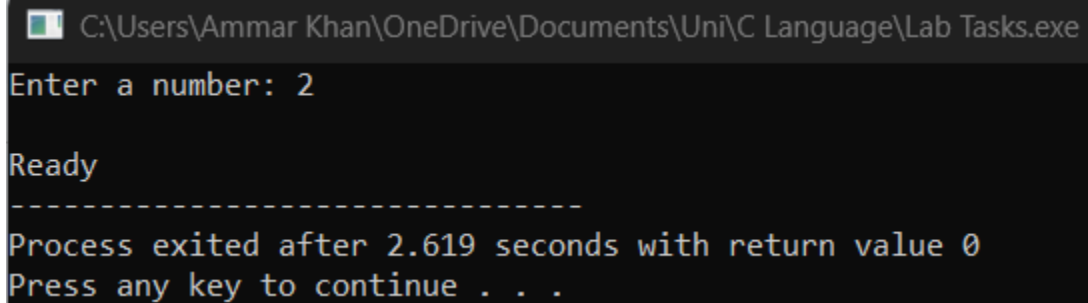
printf("Enter a number: ");
scanf(" %d", &num1);

switch (num1)
{
    case 1:
        printf("\nStop");
        break;

    case 2:
        printf("\nReady");|
        break;

    case 3:
        printf("\nGo");
        break;

}
return 0;
}
```



C:\Users\Ammar Khan\OneDrive\Documents\Uni\C Language\Lab Tasks.exe

Enter a number: 2

Ready

Process exited after 2.619 seconds with return value 0

Press any key to continue . . .

Name: Ammar Khan

Roll No: 25K-0842

Code:

```
#include<stdio.h>

int main () {

int num1;

printf("Enter a number: ");

scanf(" %d", &num1);

switch (num1) {

case 1:

printf ("\nStop");

break;

case 2:

printf ("\nReady") 3l

break;

case 3: printf ("\nGo");

break;

}

return 0;

}
```

Name: Ammar Khan

Roll No: 25K-0842

Task 7:

```
#include <stdio.h>

int main() {
    int year;

    printf("Enter a year: ");
    scanf("%d", &year);

    if ((year % 400 == 0) || (year % 4 == 0 && year % 100 != 0))
    {
        printf("%d is a leap year.\n", year);
    }
    else
    {
        printf("%d is not a leap year.\n", year);
    }

    return 0;
}
```

```
Enter a year: 1900
1900 is not a leap year.
```

```
-----
Process exited after 1.943 seconds with return value 0
Press any key to continue . . . |
```

```
Enter a year: 2024
2024 is a leap year.
```

```
-----
Process exited after 2.729 seconds with return value 0
Press any key to continue . . . |
```

Name: Ammar Khan

Roll No: 25K-0842

Code:

```
#include <stdio.h>

int main() {
    int year;

    printf("Enter a year: ");
    scanf("%d", &year);

    if ((year % 400 == 0) || (year % 4 == 0 && year % 100 != 0))
    {
        printf("%d is a leap year.\n", year);
    }
    else
    {
        printf("%d is not a leap year.\n", year);
    }

    return 0;
}
```


Name: Ammar Khan

Roll No: 25K-0842

Task 8:

```
#include <stdio.h>

int main() {
    int num1;

    printf("Enter a Number: ");
    scanf("%d", &num1);

    if (num1 > 0)
    {
        printf("%d is a positive number.\n", num1);
    }
    else if (num1 < 0)
    {
        printf("%d is a negative number.\n", num1);
    }
    else if (num1 == 0)
    {
        printf("the number you entered is zero.\n", num1);
    }

    return 0;
}
```

```
Enter a Number: -32
-32 is a negative number.
```

```
-----
Process exited after 1.992 seconds with return value 0
Press any key to continue . . . |
```

```
Enter a Number: 0
the number you entered is zero.
```

```
-----
Process exited after 1.256 seconds with return value 0
Press any key to continue . . . |
```

```
Enter a Number: 45
45 is a positive number.
```

```
-----
Process exited after 2.846 seconds with return value 0
Press any key to continue . . . |
```

Name: Ammar Khan

Roll No: 25K-0842

Code:

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

```
int main() {
```

```
    int num1;
```

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

```
    scanf("%d", &num1);
```

```
    if (num1 > 0)
```

```
    {
```

```
        printf("%d is a positive number.\n", num1);
```

```
    }
```

```
        else if (num1 < 0)
```

```
    {
```

```
        printf("%d is a negative number.\n", num1);
```

```
    }
```

```
    else if (num1 == 0)
```

```
    {
```

```
        printf("the number you entered is zero.\n", num1);
```

```
    }
```

```
    return 0;
```

```
}
```

Name: Ammar Khan

Roll No: 25K-0842

Task 9:

```
#include<stdio.h>
int main()
{
    int day;

    printf("Enter a number (1-7) to get the corresponding day of the week: ");
    scanf("%d", &day);

    switch (day)
    {
        case 1:
            printf("Monday\n");
            break;

        case 2:
            printf("Tuesday\n");
            break;

        case 3:
            printf("Wednesday\n");
            break;

        case 4:
            printf("Thursday\n");
            break;

        case 5:
            printf("Friday\n");
            break;

        case 6:
            printf("Saturday\n");
            break;

        case 7:
            printf("Sunday\n");
            break;

        default:
            printf("Invalid input! Please enter a number between 1 and 7.\n");
    }

    return 0;
}
```

```
Enter a number (1-7) to get the corresponding day of the week: 3
Wednesday
```

```
-----
Process exited after 1.827 seconds with return value 0
Press any key to continue . . . |
```

Name: Ammar Khan

Roll No: 25K-0842

Code:

```
#include<stdio.h>
int main()
{
    int day;

    printf("Enter a number (1-7) to get the corresponding day of the week: ");
    scanf("%d", &day);

    switch (day)
    {
        case 1:
            printf("Monday\n");
            break;

        case 2:
            printf("Tuesday\n");
            break;

        case 3:
            printf("Wednesday\n");
            break;

        case 4:
            printf("Thursday\n");
            break;

        case 5:
            printf("Friday\n");
            break;

        case 6:
            printf("Saturday\n");
            break;

        case 7:
            printf("Sunday\n");
            break;

        default:
            printf("Invalid input! Please enter a number between and 7.\n");
    }

    return 0;
}
```

Name: Ammar Khan

Roll No: 25K-0842

Task 10:

```
#include <stdio.h>

int main () {

    int pass;

    printf("Enter the password: ");
    scanf("%d", &pass);

    if (pass == 10101)
    {
        printf("\nAccess Granted!");
    }
    else
    {
        printf("\nWrong password, try again");
    }

    return 0;
}
```

Enter the password: 2121

Wrong password, try again

Process exited after 2.851 seconds with return value 0
Press any key to continue . . . |

Enter the password: 10101

Access Granted!

Process exited after 2.168 seconds with return value 0
Press any key to continue . . . |

Name: Ammar Khan

Roll No: 25K-0842

Code:

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

```
int main () {
```

```
    int pass;
```

```
    printf("Enter the password: ");
```

```
    scanf("%d", &pass);
```

```
    if (pass == 10101)
```

```
    {
```

```
        printf("\nAccess Granted!");
```

```
    }
```

```
    else
```

```
    {
```

```
        printf("\nWrong password, try again");
```

```
    }
```

```
    return 0;
```

```
}
```