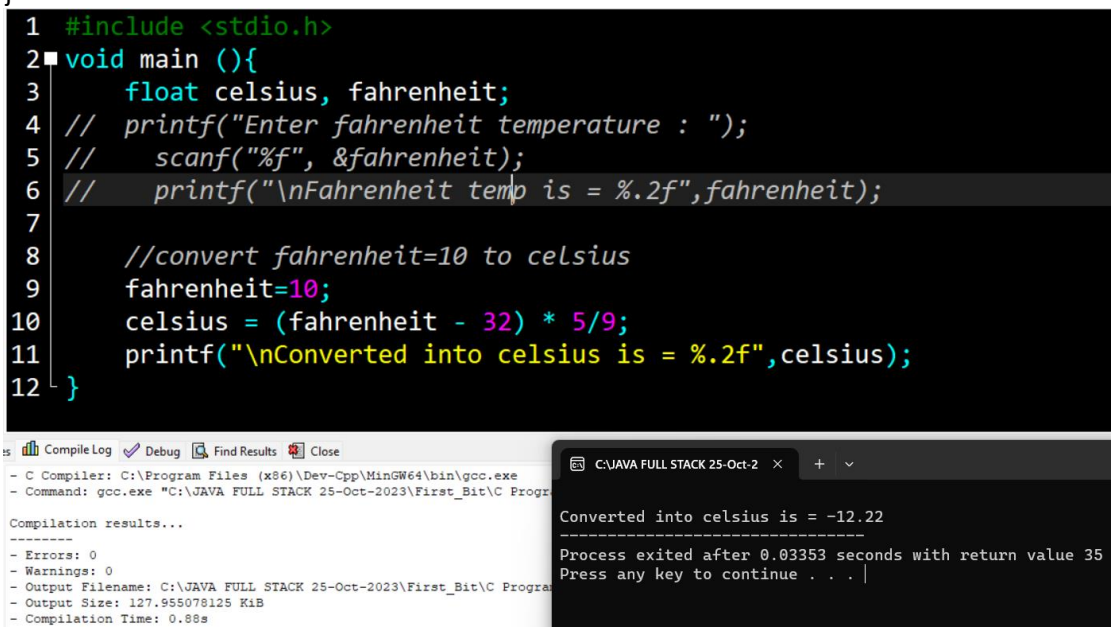
Assignment 1

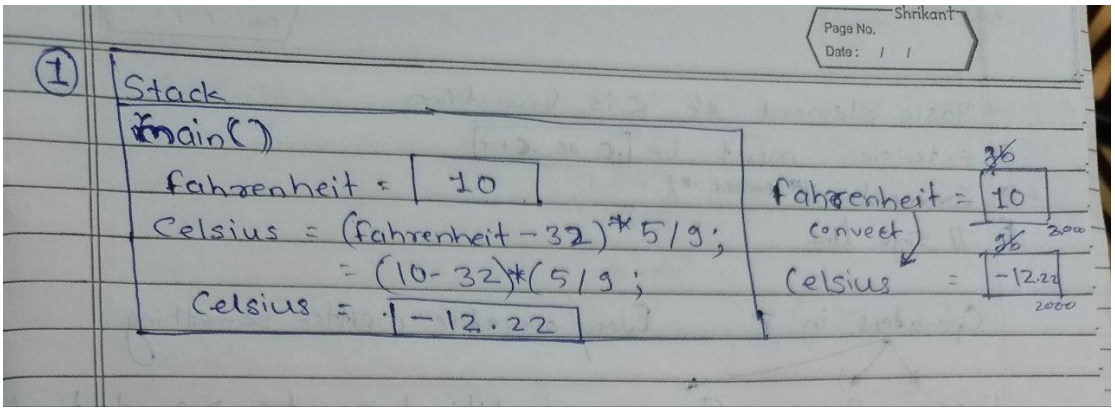
if else

==========

1). Finding F from C (temp)

```
#include <stdio.h>
void main (){
   float celsius, fahrenheit;
//  printf("Enter fahrenheit temperature : ");
//    scanf("%f", &fahrenheit);
//    printf("\nFahrenheit temp is = %.2f",fahrenheit);

          //convert fahrenheit=10 to celsius
          fahrenheit=10;
          celsius = (fahrenheit - 32) * 5/9;
          printf("\nConverted into celsius is = %.2f",celsius);
}
```





==========

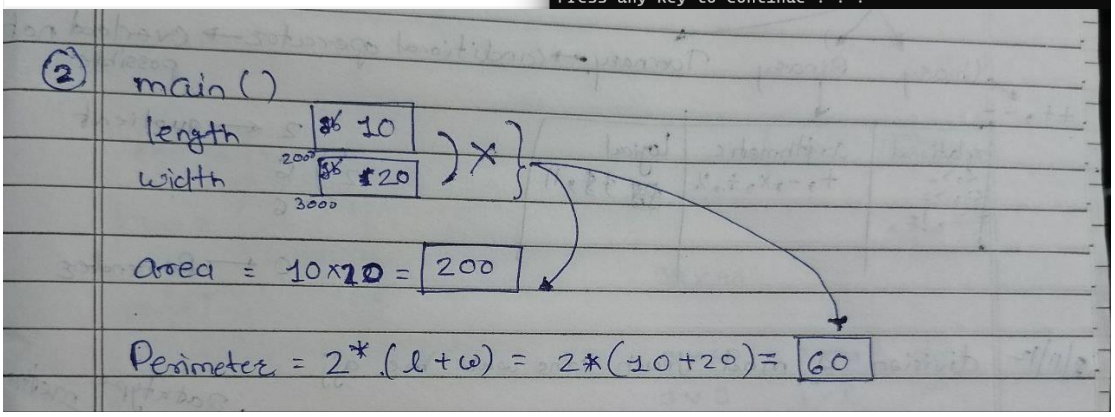
2. Finding area and perimeter of rectangle or circle.

```
#include <stdio.h>
//Finding area and perimeter of rectangle or circle
void main (){

        float area, length, width, perimeter;
        printf("Enter length = ");
   scanf("%f",&length);

   printf("\nEnter width = ");
   scanf("%f",&width);

   //calculate area
   area=length*width; //10*20
   printf("\nArea of rectangle is = %.2f",area);

        //calculate perimeter
        perimeter=2*(length+width);
        printf("\nPerimeter of rectangle is = %.2f", perimeter);
}
```

```c
#include <stdio.h>
//Finding area and perimeter of rectangle or circle
void main (){

    float area, length, width, perimeter;
    printf("Enter length = ");
    scanf("%f",&length);

    printf("\nEnter width = ");
    scanf("%f",&width);

    //calculate area
    area=length*width; //10*20
```

```
Compile Log  Debug  Find Results  Close
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinGW64\bin\gcc.exe
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pr

Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pro
- Output Size: 128.6337890625 KiB
- Compilation Time: 0.20s
```

```
C:\JAVA FULL STACK 25-Oct-2
Enter length = 10

Enter width = 20

Area of rectangle is = 200.00
Perimeter of rectangle is = 60.00
--------------------------------
Process exited after 7.155 seconds with return value 34
Press any key to continue . . .
```



==========

3. Accept a 3 digit number from user and find the sum of the digits and also reverse the number.

```c
#include <stdio.h>
//Accept a 3 digit number from user and find the sum of the digits and also
//reverse the number
void main (){
        int num=543, sum, reverse;
//      printf("Enter 3 digit number = ");
//      scanf("%d", &num);

   sum =num%10;       // 3 it will print  remender
   printf("\n%d",sum);
```

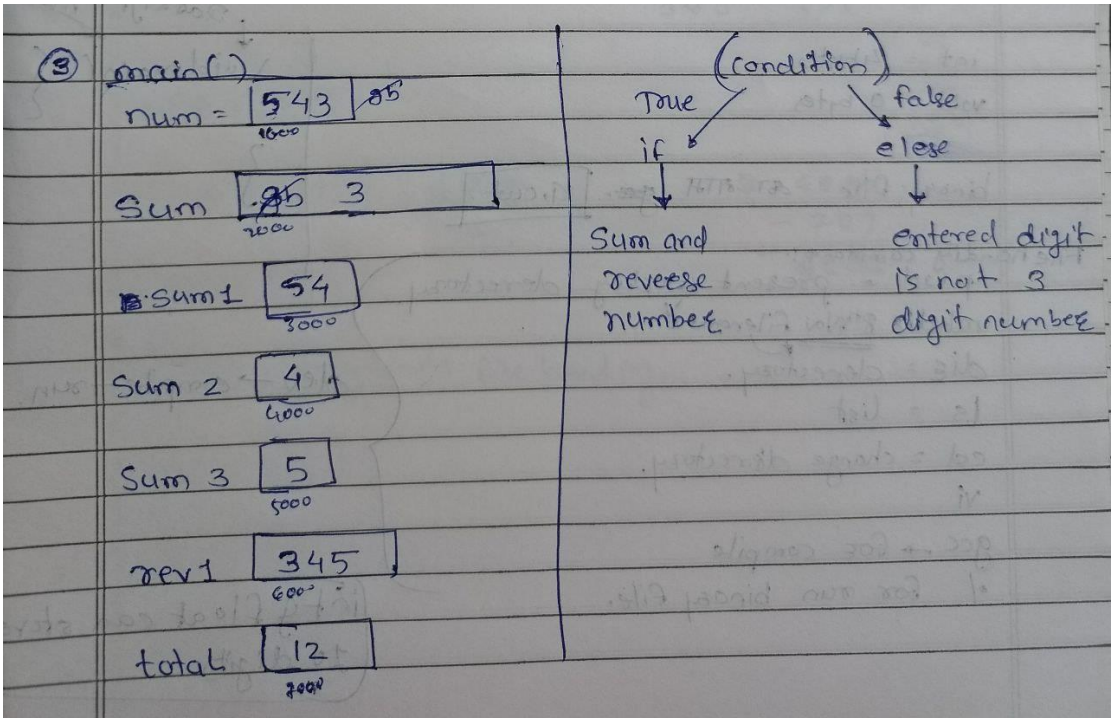
```
int sum1=num/10;    // 54 it will print quotient
 printf("\n%d",sum1);
int sum2=sum1%10;   //4
printf("\n%d",sum2);
int sum3=sum1/10;  //5
 printf("\n%d",sum3);

int rev1=sum*100, rev2=sum2*10, rev3=sum3;

int total_sum=sum3+sum2+sum;
//printf("total sum = %d",total_sum);

        if( total_sum >=0 && total_sum <=27 && num<=999 && num>=100) {

                    printf("\nSum of %d digit is = %d", num, total_sum);
    // printf("\nReverse digit is = %d%d%d",sum,sum2,sum3);
            printf("\nReverse digit is = %d",rev1+rev2+rev3);
}
else {
                printf("\nEntered Digit is NOT 3 digit number");
        }
```

```c
#include <stdio.h>
//Accept a 3 digit number from user and find the sum of the digits and also
//reverse the number
void main (){
    int num=543, sum, reverse;
//  printf("Enter 3 digit number = ");
//  scanf("%d", &num);

    sum =num%10;        // 3 it will print  remender
    printf("\n%d",sum);
    int sum1=num/10;    // 54 it will print quotient
     printf("\n%d",sum1);
    int sum2=sum1%10;   //4
```

```
Compile Log  Debug  Find Results  Close
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinGW64\bin\gcc.exe
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pro

Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Prog
- Output Size: 128.431640625 KiB
- Compilation Time: 0.20s
```

```
C:\JAVA FULL STACK 25-Oct-2

3
54
4
5
Sum of 543 digit is = 12
Reverse digit is = 345
--------------------------------
Process exited after 0.03509 seconds with return value 23
Press any key to continue . . .
```

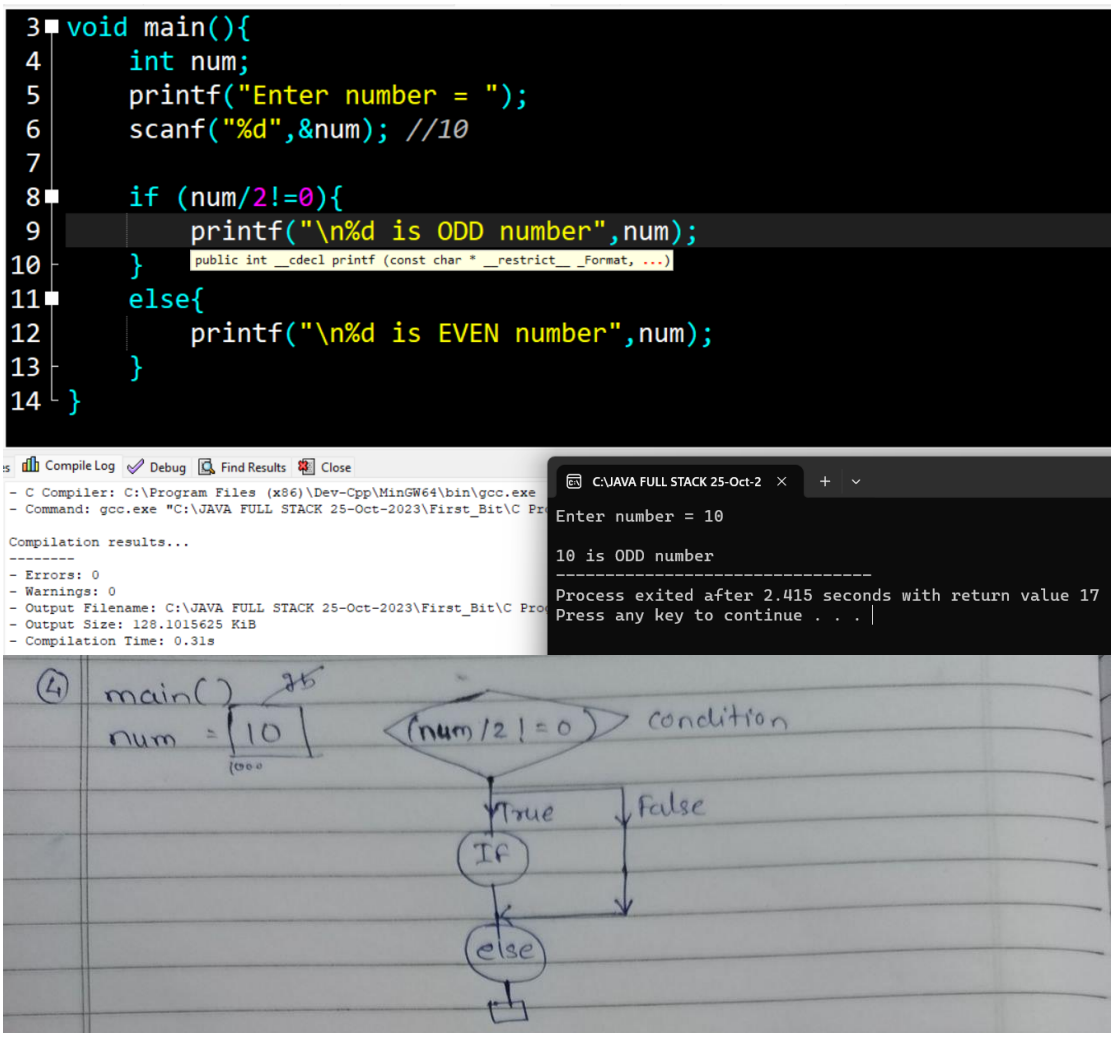
```
}
```



==========

4. Check if the given number is even or odd.

```
#include <stdio.h>
//Check if the given number is even or odd
void main(){
	int num;
	printf("Enter number = ");
	scanf("%d",&num); //10

	if (num/2!=0){
		printf("\n%d is ODD number",num);
	}
	else{
		printf("\n%d is EVEN number",num);
	}
}
```

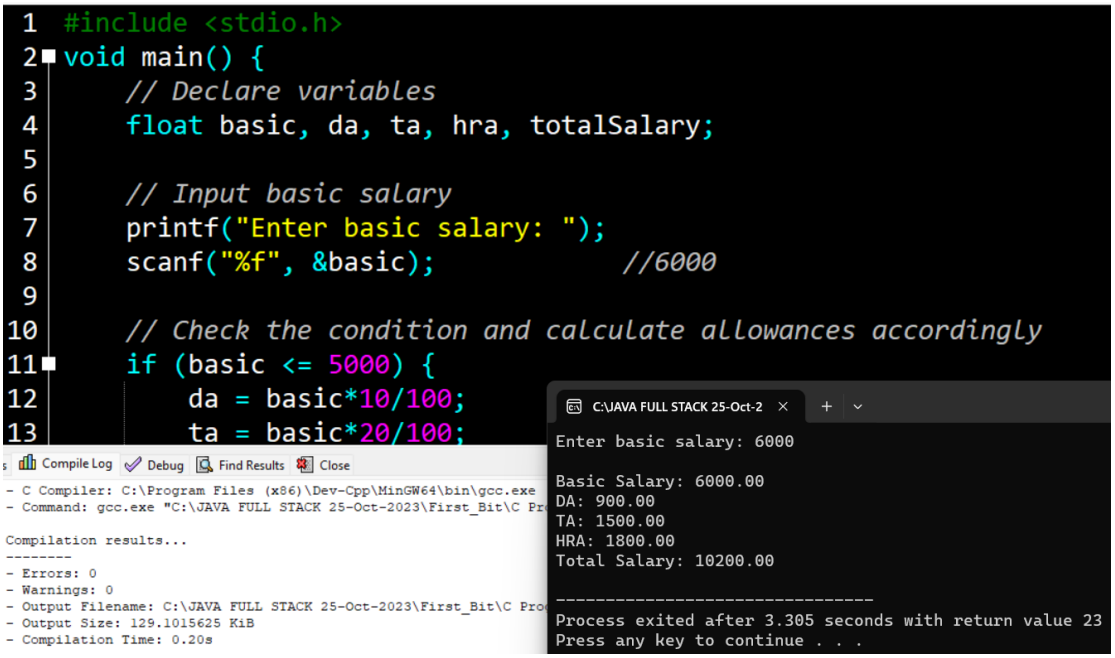


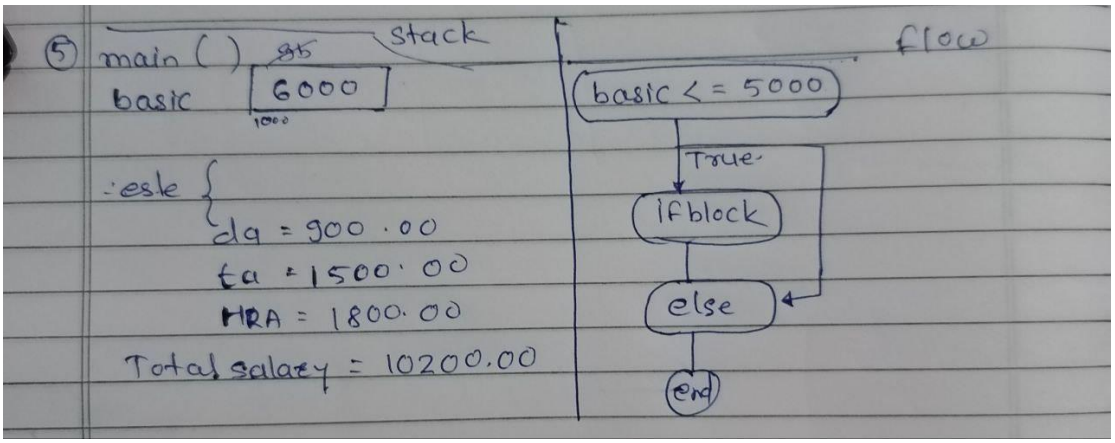
==========

5. Calculating total salary based on basic. If basic <=5000 da, ta and hra will be 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and 30% respectively.

```
#include <stdio.h>
void main() {
   // Declare variables
   float basic, da, ta, hra, totalSalary;

   // Input basic salary
   printf("Enter basic salary: ");
   scanf("%f", &basic);          //6000

   // Check the condition and calculate allowances accordingly
```

```
    if (basic <= 5000) {
       da = basic*10/100;
       ta = basic*20/100;
       hra =basic*25/100;
    }

          else {
       da = basic*15/100;
       ta = basic*25/100;
       hra =basic*30/100;
    }

    // Calculate total salary
    totalSalary = basic + da + ta + hra;

    // Display the result
    printf("\nBasic Salary: %.2f\n", basic);
    printf("DA: %.2f\n", da);
    printf("TA: %.2f\n", ta);
    printf("HRA: %.2f\n", hra);
    printf("Total Salary: %.2f\n", totalSalary);
}
```





==========

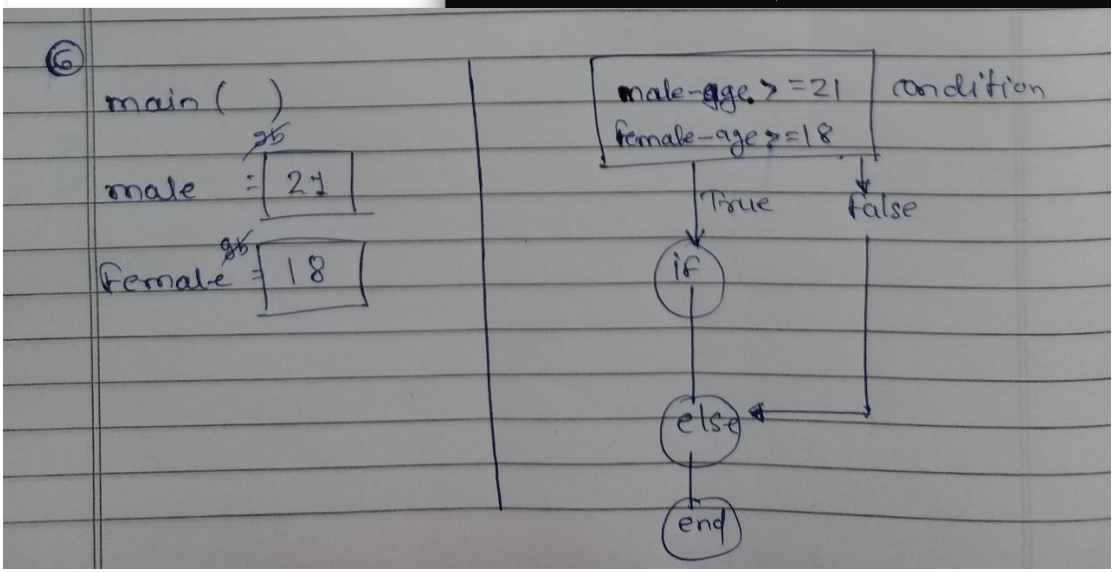
6. Write a program to check if person is eligible to marry or not (male age >=21 and female age>=18).

```
#include <stdio.h>
//Write a program to check if person is eligible to marry or not
//(male age >=21 and female age>=18).
void main (){
	int male_age, female_age;

	printf("Enter MALE age = ");
	scanf("%d", &male_age);

	printf("\nEnter FEMALE age = ");
	scanf("%d", &female_age);

	if (male_age>=21 && female_age>=18 ){
		printf("\nMale and Female both can marry");
	}
	else {
		printf("\nUfff.. Male and Female can NOT marry");
	}
}
```

```c
#include <stdio.h>
//Write a program to check if person is eligible to marry or not
//(male age >=21 and female age>=18).
void main (){
    int male_age, female_age;

    printf("Enter MALE age = ");
    scanf("%d", &male_age);

    printf("\nEnter FEMALE age = ");
    scanf("%d", &female_age);

    if (male age>=21 && female age>=18 ){
```

```
Compile Log  Debug  Find Results  Close
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinGW6
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\

Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\F
- Output Size: 128.6015625 KiB
- Compilation Time: 0.20s
```

```
C:\JAVA FULL STACK 25-Oct-2
Enter MALE age = 21

Enter FEMALE age = 18

Male and Female both can marry
--------------------------------
Process exited after 2.955 seconds with return value 31
Press any key to continue . . .
```



==========

END