Assignment 1

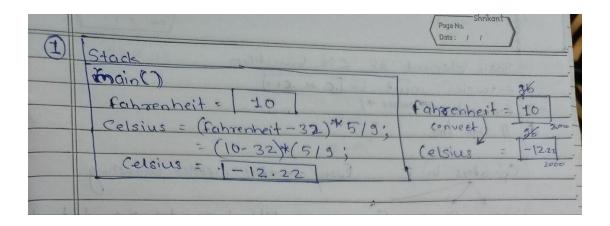
if else

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);
  1 #include <stdio.h>
  2 void main (){
            float celsius, fahrenheit;
           printf("Enter fahrenheit temperature : ");
              scanf("%f", &fahrenheit);
printf("\nFahrenheit temp is = %.2f",fahrenheit);
  5
     11
  6
  7
 8
            //convert fahrenheit=10 to celsius
 9
            fahrenheit=10;
10
            celsius = (fahrenheit - 32) * 5/9;
            printf("\nConverted into celsius is = %.2f",celsius);
es 📶 Compile Log 🧳 Debug 🗓 Find Results 🍇 Close

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- 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 Progr
                                                       Converted into celsius is = -12.22
Compilation results...
                                                       Process exited after 0.03353 seconds with return value 35
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Progra
- Output Size: 127.955078125 KiB
- Compilation Time: 0.88s
                                                       Press any key to continue . . .
```



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);
}
```

```
1 #include <stdio.h>
 2 //Finding area and perimeter of rectangle or circle
 3 proid main (){
            float area, length, width, perimeter;
 5
 6
            printf("Enter length = ");
 7
            scanf("%f",&length);
 8
 9
            printf("\nEnter width = ");
10
            scanf("%f",&width);
11
12
            //calculate area
            area=length*width; //10*20
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                                                       \blacksquare C:\JAVA FULL STACK 25-Oct-2 	imes + 	imes
- 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 Enter length = 10
Compilation results...
                                                      Enter width = 20
- 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
                                                      Process exited after 7.155 seconds with return value 34
                                                      Press any key to continue
                               86 10
             length
                                  $20
            arrea
                                          200
                           10×20 =
                                     (1+6)=
```

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

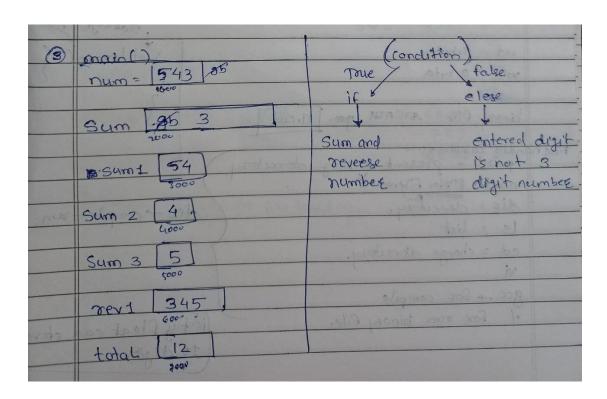
```
#include <stdio.h>
//Accept a 3 digit number from user and find the sum of the digits and also
//reverse the number
void main (){
        int num=543, sum, reverse;
// printf("Enter 3 digit number = ");
// scanf("%d", &num);

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");
 2 //Accept a 3 digit number from user and find the sum of the digits and also
 3 //reverse the number
 4 void main (){
          int num=543, sum, reverse;
          printf("Enter 3 digit number = ");
 7
    // scanf("%d", &num);
 8
 9
          sum = num \% 10;
                                     // 3 it will print remender
10
          printf("\n%d",sum);
11
                                     // 54 it will print quotient
          int sum1=num/10;
           printf("\n%d", sum1);
12
          int sum2=sum1%10;
es 📶 Compile Log 🥒 Debug 🗓 Find Results 🐉 Close
                                                © C:\JAVA FULL STACK 25-Oct-2 × + ∨
- 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...
- Machings. 0 - Molinings. 0 - Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pro

- Output Size: 128.431640625 KiB

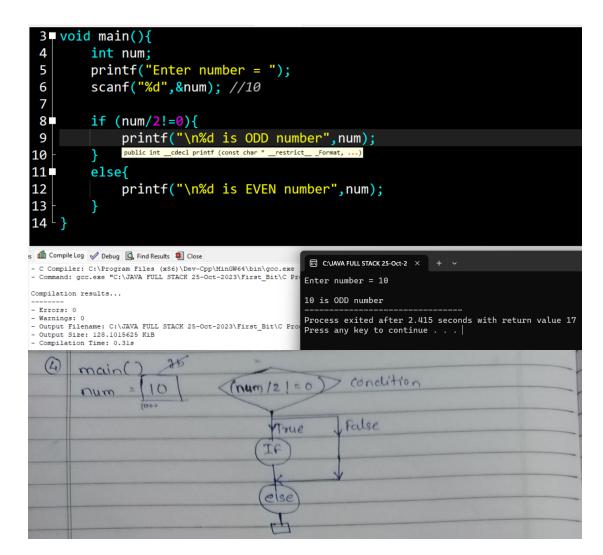
- Compilation Time: 0.20s
                                              Sum of 543 digit is = 12
Reverse digit is = 345
                                               Process exited after 0.03509 seconds with return value 23
```



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

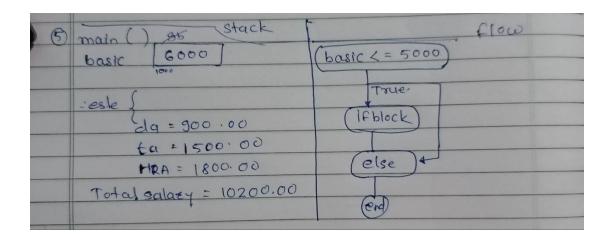
```
#include <stdio.h>
//Check if the given number is even or odd
void main(){
    int num;
    printf("Enter number = ");
    scanf("%d",&num); //10

    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.

```
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);
 1 #include <stdio.h>
 2 proid main() {
           // Declare variables
 4
           float basic, da, ta, hra, totalSalary;
 5
 6
          // Input basic salary
 7
           printf("Enter basic salary: ");
 8
           scanf("%f", &basic);
                                                        //6000
 9
           // Check the condition and calculate allowances accordingly
10
           if (basic <= 5000) {
11
12
                da = basic*10/100;
                                                   © C:\JAVA FULL STACK 25-Oct-2 × + ∨
                ta = basic*20/100:
                                                  Enter basic salary: 6000
s 🌓 Compile Log 🤣 Debug 🗓 Find Results 🐉 Close
                                                  Basic Salary: 6000.00
- C Compiler: C:\Program Files (x86)\Dev-Cpp\MinGW64\bin\gcc.exe
                                                  DA: 900.00
TA: 1500.00
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pr
Compilation results...
                                                  HRA: 1800.00
                                                  Total Salary: 10200.00
 Warnings: 0
- Output Filename: C:\JAVA FULL STACK 25-Oct-2023\First_Bit\C Pro-
Output Size: 129.1015625 KiB
- Compilation Time: 0.20s
                                                  Process exited after 3.305 seconds with return value 23
                                                  Press any key to continue .
```



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");
       }
}
```

```
1 #include <stdio.h>
 2 //Write a program to check if person is eligible to marry or not
 3 //(male age >=21 and female age>=18).
 4 proid main (){
          int male_age, female_age;
  6
  7
          printf("Enter MALE age = ");
 8
          scanf("%d", &male_age);
 9
10
          printf("\nEnter FEMALE age = ");
11
          scanf("%d", &female_age);
12
          if (male age>=21 && female age>=18 ){
es 🛍 Compile Log 🤣 Debug 🗓 Find Results 🦥 Close
- Command: gcc.exe "C:\JAVA FULL STACK 25-Oct-2023\
                                   Enter MALE age = 21
Compilation results...
                                   Enter FEMALE age = 18
- Errors: 0
- Warnings: 0 - Output Filename: C:\JAVA FULL STACK 25-Oct-2023\F: Male and Female both can marry
- Output Size: 128.6015625 KiB
- Compilation Time: 0.20s
                                   Process exited after 2.955 seconds with return value 31
                                   Press any key to continue . . .
                                                                     condition
                                                male-age > = 21
        main (
                                                remale-age >=18
        male
                                                       True
                                                                  False
                      18
       ternal-e
                                                     eno
```