Week-1 Program-1

Input:

```
void arithmetic(int a, int b);
void relational(int a, int b);
         #include <stdio.h>
#include <math.h>
          int main()
                  int a, b, choice;
                  choice = 0;
                          printf("Enter a number 'a' \n");
                        scanf("%d", &a);
printf("Enter another number 'b' \n");
scanf("%d", &b);
printf("-----MENU-----\n");
printf("1. Arithmetic Operations \n");
                        printf("1. Allthmetic Operations \n");
printf("2. Relational Operations \n");
printf("3. EXIT\n");
printf("Enter a number of your choice \n");
                          scanf("%d", &choice);
                               itch(choice)
                                  case 1: arithmetic(a, b);
                                  case 2: relational(a, b);
                                  case 3: printf("EXITING \n");
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                                  default: printf("Enter correct number\n");
                  }
} while(choice != 3);
          void arithmetic(int a, int b)
                 int ch;
printf("----SUB MENU----\n");
printf("1. Addition \n");
printf("2. Subtraction \n");
printf("3. Multiplication \n");
printf("4. Division \n");
printf("5. Modulus \n");
printf("Enter the number of your choice\n");
scanf("%d", &ch);
switch(ch)
{
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                            case 1: printf("The sum is : %d\n", (a+b));
                         case 2: printf("The difference is : %d\n", (a-b));
                         case 3: printf("The product is : %d\n", (a*b));
                         case 4: printf("The quotient is : %d\n", (a/b));
                         case 5: printf("The remainder is : %d\n", (a%b));
                          default: printf("Enter number correctly\n");
                 int ch;
printf("----SUB MENU----\n");
printf("1. Lesser than \n");
printf("2. Greater than \n");
printf("3. Equality \n");
printf("4. Lesser than or equal to \n");
printf("5. Greater than or equal to \n");
printf("Enter the number of your choice\n");
scanf("%d", &ch);
switch(ch)
{
```

```
if (a < b)
    printf("%d is lesser than %d\n", a, b );
else
    printf("%d is not lesser than %d\n", a, b);

break;

case 2:
    if (a > b)
    printf("%d is greater than %d\n", a, b);

break;

case 3:
    if (a == b)
    printf("%d is equal to %d\n", a, b);

else

printf("%d is not equal to %d\n", a, b);

else

printf("%d is not equal to %d\n", a, b);

else

printf("%d is not equal to %d\n", a, b);

break;

case 4:

if (a <= b)
    printf("%d is lesser than or equal to %d\n", a, b);

else

printf("%d is neither lesser than nor equal to %d\n", a, b);

break;

case 5:

if (a >= b)
    printf("%d is neither lesser than nor equal to %d\n", a, b);

break;

case 5:

if (a >= b)
    printf("%d is greater than or equal to %d\n", a, b);

break;

case 5:

if (a >= b)
    printf("%d is greater than or equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
    printf("%d is neither greater than nor equal to %d\n", a, b);

else
```

```
break;
default: printf("Enter number correctly\n");
}
115 }
116 }
```

Output:

```
Enter a number 'a'
10
Enter another number 'b'
20
 ----MENU-----
1. Arithmetic Operations
2. Relational Operations
3. EXIT
Enter a number of your choice
 ----SUB MENU-----
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Modulus
Enter the number of your choice
The product is : 200
Enter a number 'a'
```

Week-1 Program-2

INPUT:

```
float sumaver(int x, int y);
      void printeven(int x, int y);
      #include <stdio.h>
#include <math.h>
      int main()
           int a, b, c, small;
float avg = 0;
           float avg = 0;
printf("Enter the first number\n");
scanf("%d", &a);
printf("Enter the second number\n");
scanf("%d", &b);
printf("Enter the third number\n");
scanf("%d", &c);
if ((a > c) && (b > c))
{
                avg = sumaver(a, b);
                 printf("The average of greater two numbers is : %.2f\n", avg);
                 printeven(a, b);
              lse if ((a > b) && (c > b))
                avg = sumaver(a, c);
printf("The average of greater two numbers is : %.2f\n", avg);
                 printeven(a, c);
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            else if ((b > a) && (c > a))
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42
43
44
                 avg = sumaver(b, c);
                 printf("The average of greater two numbers is : %.2f\n", avg);
                 printeven(b, c);
            return 0:
      float sumaver(int x, int y)
49
50
            int sum = 0;
           printf("The sum of greater two numbers is : %d\n", (x + y); return (float)(x + y)/2.0;
      void printeven(int x, int y)
            int p1, p2;
            if (x < y)
                 p1 = x;
                 p2 = y;
                 p1 = y;
                 p2 = x;
           printf("The even numbers between %d and %d are:\n", p1, p2);
            for (int i = p1; i \leftarrow p2; i++)
                 if (i % 2 == 0)
                 1
                      printf("%d\n", i);
```

Output:

```
Enter the first number

11
Enter the second number

10
Enter the third number

21
The sum of greater two numbers is : 32
The average of greater two numbers is : 16.00
The even numbers between 11 and 21 are:

12
14
16
18
20
...Program finished with exit code 0
Press ENTER to exit console.
```