

(15/09/2020)

WEEK - 1

67

```
1) 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;
```

```
do  
{
```

```
printf("Enter a number 'a' \n");
```

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

```
printf("Enter a number 'b' \n");
```

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

```
printf("----- MENU ----- \n");
```

```
printf("1. Arithmetic Operations \n");
```

```
printf("2. Relational Operations \n");
```

```
printf("3. EXIT \n");
```

```
printf("Enter a number of your choice \n");
```

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

```
switch (choice)
```

```
{
```

```
case 1: arithmetic (a, b);
```

```
break;
```

```
case 2: relational (a, b);
```

```
break;
```

```
case 3: printf("EXITING \n");
```

```
break;
```

```
default: printf("Enter correct number \n");
```

```
while (choice != 3);
```

```
return 0;
```

```
}
```

```
void arithmetic (int a, int b)
{
```

```
    int ch;
    print ("---- SUB MENU ---- \n");
    print ("1. Addition \n");
    print ("2. Subtraction \n");
    print ("3. Multiplication \n");
    print ("4. Mod Division \n");
    print ("5. Modulus \n");
    scanf ("%d", &ch);
```

```
    print ("Enter your choice \n");
    scanf ("%d", &ch);
```

```
    switch (ch)
    {
```

```
        case 1: print ("The sum is: %d \n", (a+b));
                break;
```

```
        case 2: print ("The diff is: %d \n", (a-b));
                break;
```

```
        case 3: print ("The product is: %d \n", (a*b));
                break;
```

```
        case 4: print ("The quotient is: %d \n", (a/b));
                break;
```

```
        case 5: print ("The remainder is %d \n", (a%b));
                break;
```

```
        default: print ("Enter number correctly \n");
    }
```

```
}
```

```
void relational (int a, int b)
{
```

```
    int ch;
    print ("---- SUB MENU ---- \n");
    print ("1. Less than \n");
    print ("2. Greater than \n");
```



```
printf("3. Equality \n");  
printf("4. Less than or Equal to \n");  
printf("5. Greater than or Equal to \n");  
printf("Enter your choice \n");  
scanf("%d", &ch);  
switch(ch){
```

case 1:

```
if(a < b){  
    printf("%d is less than %d \n", a, b);  
else
```

```
    printf("%d is not less than %d \n", a, b);  
break;
```

case 2:

```
if(a > b){  
    printf("%d is greater than %d \n", a, b);  
else
```

```
    printf("%d is not 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);  
break;
```

case 4:

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

```
else  
    printf("%d is neither less 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);
```

```
else
```

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

```
& break;
```

```
default: printf("Enter number correctly\n");
```

```
}
```

2.)

```
float sumaver (int x, int y);  
void printeren (int x, int y);
```

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

```
#include <math.h>
```

```
int main()
```

```
{
```

```
int a, b, c, small;
```

```
float avg = 0;
```

```
printf("Enter first number\n");
```

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

```
printf("Enter second number\n");
```

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

```
printf("Enter third number\n");
```

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

```
if ((a > c) && (b > c))
```

```
{
```

```
avg = sumaver(a, b);
```

```
printf("The average of greater 2 numbers is:  
%.2f\n", avg);
```

```
printeren(a, b);
```

```
}
```



```

else if ((a > b) && (c > b))
{

```

```

    avg = sumaver(a, c);
    printf("The average of greater of 2 numbers  
is : %d of %d\n", avg);
    printeven(a, c);
}

```

```

else if ((b > a) && (c > a))
{

```

```

    avg = sumaver(b, c);
    printf("The average of greater 2 numbers  
is %d of %d\n", avg);
    printeven(a, c);
}

```

```

return 0;
}

```

```

float aversum(int x, int y)
{

```

```

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;
    }

```

```

    else
    {

```

```

        p1 = y; p2 = x;
    }
}

```

```

printf("The even numbers between %d and
      %d are: \n", p1, p2);
for (int i = p1; i <= p2; i++)
{
    if (i % 2 == 0)
        printf("%d\n", i);
}
}

```

~~(0, d) numbers = 0 to d
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