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1BM18CS131

WEEK 1

Q.1

A.

```c
# include <stdio.h>
int main ()
{
    int c, a, b, i;
    while (1)
    {
        printf ("Press the number to choose the operation:\n");
        printf ("1) Add \n");
        printf ("2) Subtract \n");
        printf ("3) Multiply \n");
        printf ("4) divide \n");
        printf ("5) modules \n");
        printf ("6) Greater than \n");
        printf ("7) lesser than \n");
        printf ("8) Equal to \n");
        printf ("9) Not Equal to \n");
        printf ("10) increement \n");
        scanf ("%d", & i);
        printf ("Enter two numbers to perform the
                selected operation:\n");
        scanf ("%d %d", &a, &b);
        switch (i)
        {
            case 1: printf ("%d + %d = %d \n", a, b,
                    a+b); break;
```

```c
                                                    break;
case 2 : printf ("%d - %d = %d \n", a, b, a-b); ⤳
                break;
case 3 : printf ("%d x %d = %d \n", a, b, a*b); break;
case 4 : printf ("%d / %d = %d \n", a, b, a/b); break;
case 5 : printf ("%d mod %d = %d \n", a, b, a%b);
                break;
case 6 : if (a>b)
         {
                    printf ("%d > %d \n", a, b);

         }
         else
         {
                    printf ("%d > %d \n", b, a);
         }
             break;
case 7 : if (a < b)
         {
                    printf ("%d < %d \n", a, b);

         }
         else
         {
                    printf ("%d < %d \n", b, a);
         }
             break;
case 8 : if (a == b)
         {
```

```c
            printf ("%d = %d \n", a, b);

        }
    else
    {
            printf ("%d != %d\n", b, a);

    }
    break;

case 9: if (a != b)
        {
            printf ("%d != %d \n", a, b);

        }
    else
    {
            printf ("%d = %d \n", b, a);

    }
    break;
case 10:
            printf ("%d++ = %d \n", a, a+1);
            printf ("%d++ = %d \n", b, b+1);
            break;
    default: printf ("Wrong Input \n");

}
```

```c
printf ("Press 1 to perform calculation again\n Press any
        other key to exit \n");
scanf ("%d ",& c);

if (c! = 1)
{
    break ;
}
}
}
```

Q.2

A.

```c
# include <stdio.h>
int sumaver (int a, int b)
{
    int sum;
    sum = a+b;
    printf ("sum = %d\n", sum);
    return sum/2;

}
void printeven (int a, int b)
{
    int small, big;
    if (a>b)
    {
        small = b;
        big = a;
    }
    else
    {
        small = a;
        big = b;
    }
    printf (" Even numbers between two numbers are:
            \n ");
    int i;
    for (i = small+1; i< big; i++)
    {
```

```c
    if  (i % 2 == 0)
        printf ("%d \n", i);
    }
}


int main ()
{
    int a, b, c, avg, g1, g2;
    printf (" Enter three numbers : \n");
    scanf ("%d %d %d ", &a &b &c);
    if (c<a && c<b)
    {
        g1 = a;
        g2 = b;
    }
    else if (b<a && b<c)
    {
        g1 = a;
        g2 = c;
    }
    else
    {
        g1 = b;
        g2 = c;
    }
    av
```

```
avg   sumaver (g1, g2);
printf (" Average of two numbers is: %d \n", avg);
printeven (g1, g2);

}
```