WEEK 1

Q1.

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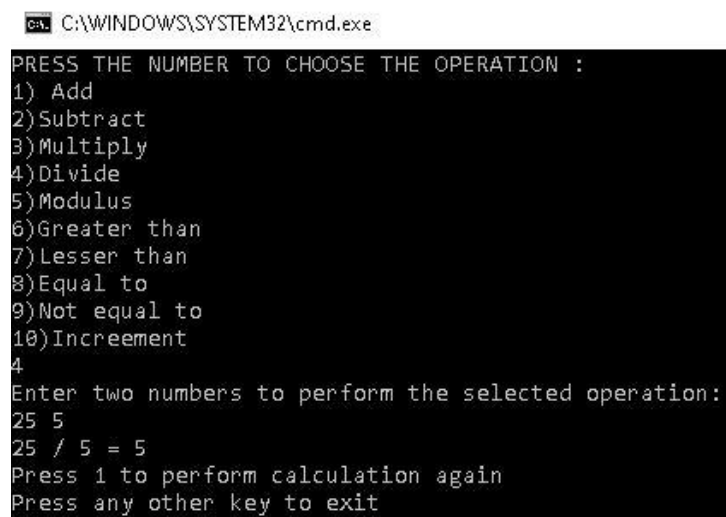
```
        if(c!=1)

        {

                break;

        }

    }

}
```

OUTPUT:


```
C:\WINDOWS\SYSTEM32\cmd.exe

PRESS THE NUMBER TO CHOOSE THE OPERATION :
1) Add
2)Subtract
3)Multiply
4)Divide
5)Modulus
6)Greater than
7)Lesser than
8)Equal to
9)Not equal to
10)Increement
4
Enter two numbers to perform the selected operation:
25 5
25 / 5 = 5
Press 1 to perform calculation again
Press any other key to exit
```

Q2.

#include <stdio.h>

```c
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++)

    {

        if(i%2==0)
```

```c
        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;

    }


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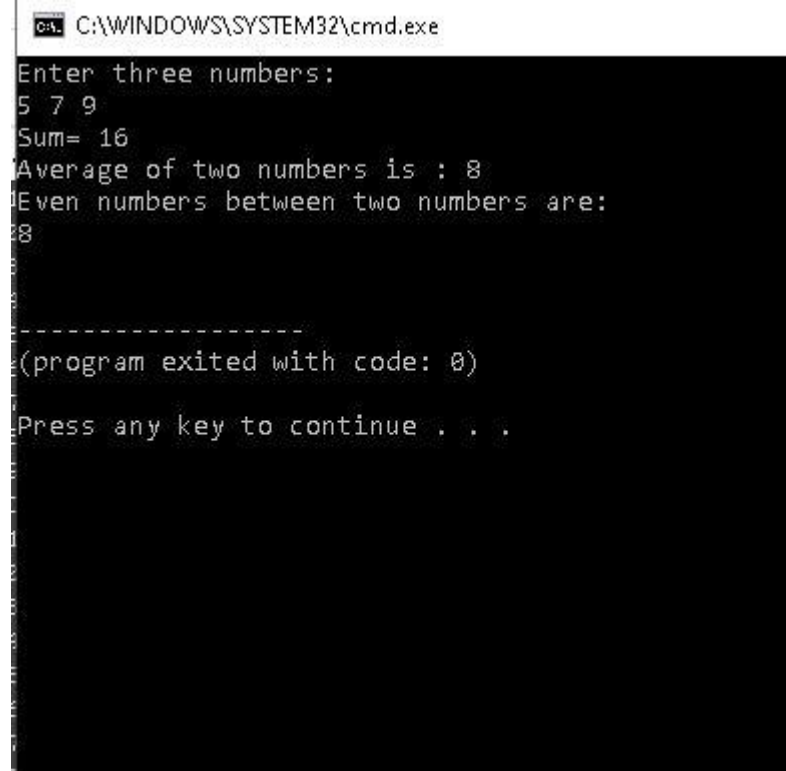
```
printf("Average of two numbers is : %d \n",avg);

printeven(g1,g2);


}
```

OUTPUT: