```c
1.#include<stdio.h>
#include<math.h>
#include<stdlib.h>
void main()
{
    int a,b,choice;
    float avg;
    printf("Enter the first number\n");
    scanf("%d",&a);
    printf("Enter the second number\n");
    scanf("%d",&b);
while(1)
{
printf("\nEnter the choice\n");
printf("1-Addition 2-Subtraction 3-Multiplication 4-Division\n");
printf("5-Greatest of two numbers 6-Smallest of two numbers 7-Check if the two numbers are equal 8-
check if the two numbers are different \n");
printf("9-Remainder 10-Average 0-To exit\n");
scanf("%d",&choice);
switch(choice)
{ case 1:
printf("Sum=%d",a+b);
break;
case 2:
printf("Difference=%d",a-b);
break;
```

```c
case 3:
printf("Product=%d",a*b);
break;
case 4:
printf("Quotient=%d",a/b);
break;
case 5:
if(a>b)
printf("Largest = %d",a);
else
printf("Largest = %d",b);
break;
case 6:
if(a<b)
printf("Smallest = %d",a);
else
printf("Smallest = %d",b);
break;
case 7:
if(a==b)
printf("The numbers are equal\n");
else
printf("The numbers are not equal\n");
break;
case 8:
```

```c
if(a!=b)

printf("The numbers are different\n");

else

printf("The numbers are same\n");

break;

case 9:

printf("Remainder=%d",a%b);

break;

case 10: ;

printf("Average=%f",(a+b)/2.0);

break;

case 0:

exit(0);

default:

printf("Invalid input\n");

}

}

}
```

```
Enter the first number
4
Enter the second number
6

Enter the choice
1-Addition 2-Subtraction 3-Multiplication 4-Division
5-Greatest of two numbers 6-Smallest of two numbers 7-Check if the two numbers are equ
9-Remainder 10-Average 0-To exit
2
Difference=-2
Enter the choice
1-Addition 2-Subtraction 3-Multiplication 4-Division
5-Greatest of two numbers 6-Smallest of two numbers 7-Check if the two numbers are equ
9-Remainder 10-Average 0-To exit
4
Quotient=0
Enter the choice
1-Addition 2-Subtraction 3-Multiplication 4-Division
5-Greatest of two numbers 6-Smallest of two numbers 7-Check if the two numbers are equ
9-Remainder 10-Average 0-To exit
```

2.
```c
#include <stdio.h>

float sumaver(int x,int y)

{

printf("Sum: %d\n",x+y);

return((x+y)/2.0);

}

void printeven(int x,int y)

{

printf("All the even numbers from %d to %d are\n",y,x);

for(int i=y;i<=x;i++)

{

if(i%2==0)

printf("%d ",i);

}

}

int main()
```

```c
{
int a[3],g1,g2,t;
printf("Enter the three numbers\n");
scanf("%d%d%d",&a[0],&a[1],&a[2]);
for(int i=0;i<3;i++)
{
for(int j=i+1;j<3;j++)
{
if(a[i]<a[j])
{
t=a[i];
a[i]=a[j];
a[j]=t;
}
}
}
g1=a[0];
g2=a[1];
float aver=sumaver(g1,g2);
printf("Average: %f\n",aver);
printeven(g1,g2);
return 0;
}
```

```
C:\c++\week1-2.exe

Enter the three numbers
100 750 250
Sum: 1000
Average: 500.000000
All the even numbers from 250 to 750 are
250 252 254 256 258 260 262 264 266 268 270 272 274 276 278 280 282 284 286 288 290 29
334 336 338 340 342 344 346 348 350 352 354 356 358 360 362 364 366 368 370 372 374 37
418 420 422 424 426 428 430 432 434 436 438 440 442 444 446 448 450 452 454 456 458 46
502 504 506 508 510 512 514 516 518 520 522 524 526 528 530 532 534 536 538 540 542 54
586 588 590 592 594 596 598 600 602 604 606 608 610 612 614 616 618 620 622 624 626 62
670 672 674 676 678 680 682 684 686 688 690 692 694 696 698 700 702 704 706 708 710 71
Process returned 0 (0x0)   execution time : 19.828 s
Press any key to continue.
```