1.
```c
#include <stdio.h>
int main ()
{
    int a, b, s, n;
    n=1;
    while (n==1)
    {
        printf ("Enter two numbers");
        scanf ("%d %d", &a, &b);
        printf ("Enter 1 for add, 2 for sub, 3 for multi,
        4 for div, 5 for greater than, 6 for lesser than,
        7 for greater than or equal, 8 for lesser than or
        equal, 9 for equal to);
        scanf ("%d", &s);
        switch (s)
        {
            case 1: printf (" %d + %d", a, b, a+b);
            break;
            case 2: printf ("%d - %d = %d", a, b, a-b);
            break;
            case 3: printf ("%d * %d = %d", a, b, a*b);
            break;
            case 4: printf (" %d / %d = %d", a, b, a/b);
            break;
            case 5: if (a>b)
            printf ("true");
            else
            printf ("false");
            break;
            case 6: if (a<b)
            printf ("true");
            else
            printf ("false");
            break;
```

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case 7: if (a>=b)
        printf ("true");
        else
        printf ("false");
        break;
case 8: if(a<=b)
        printf ("true");
        else
        printf ("false");
        break;
case 9: if (a==b)
        printf ("equal");
        else
        printf ("not equal");
        break;
default: printf ("invalid input");
}
        printf ("Enter 1 to continue or 0 to exit");
        scanf ("%d", &n);
}
}
```

```
2. #include <stdio.h>
   float sumaver (int x1, int x2);
   void printeven (int x1, int x2);
   int main ()
   {
        int p, q, r, x1, x2;
        float avg;
        printf ("Enter three numbers \n");
        scanf ("%d %d %d", &p, &q, &r);
        if (p>q && p>r)
        {
            x1=p;
            if (q>r)
            {
                x2=q;
            }
            else
            {
                x2=r;
            }
        }
        else if (q>r)
        {
            x1=q;
            if (r>p)
            {
                x2=r;
            }
            else
            {
                x2=p;
            }
        }
        else
```

```
{
    x1 = r;
    if (p > q)
    {
        x2 = p;
    }
    else
    {
        x2 = q;
    }
}

avg = sum aver (x1, x2);
printf (" average is %f \n", avg);
printeven (x1, x2);
return 0;
}

float sumaver (int x1, int x2)
{
    int sum, a;
    sum = x1 + x2;
{
    int i;
    printf ("all even numbers between are: \n");
    if (x1 > x2)
    {
        i = x2;
    }
    else
    {
        i = x1;
    }
    for (i = x2+1; i < x1; i++)
    {
        if (i %2 == 0)
```

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        printf (" %d \n", i);
    }
  }
}
```