Exercice 1:

```
#include <stdio.h>
int main()
{
    int a, b, c:
    printf("Enter a, b and c \n"):
    scanf("\%d \%d \%d', \&a, \&b, \&c):
    if (a > b)
    {
        if (a > c)
        {
            printf("The max is a = \%d', a):
        }
        else
        {
            printf("The max is c = \%d', c):
        }
    }
    clse
    {
        if (b > c)
        {
            printf("The max is b = \%d', b):
        }
        else
        {
            printf("The max is c = \%d', c):
        }
    }
    return 0:
}
```

Exercice 2:

```
#include <stdio.h>
void main()
{
    float a, b, x:
    printf("Enter a and b \n");

    scanf("\%f \%f", \&a, \&b);
    if (a == 0)
    {
        if (b == 0)
        {
            printf("Infinite solutions \n");
        }
        else
        {
            printf("There's no solution");
        }
        else
        {
            x = -b / a:
            printf("The solution = \% 3f \n", \x);
        }
}
```

Exercice 3.4:

```
#include \( \stdio. \h \) 
int main()
{
    unsigned int x:
    printf("Enter x \( \frac{\pmathbf{n}}{\pmathbf{n}} \);
    scanf("\( \frac{\pmathbf{n}}{\pmathbf{n}} \), \( \frac{\pmathbf{n}}{\pmathbf{n}} \);
    if (x \( \frac{\pmathbf{n}}{\pmathbf{n}} \) = 0)
    {
        printf("x is even \( \frac{\pmathbf{n}}{\pmathbf{n}} \));
    }
    else
    {
        printf("x is odd \( \frac{\pmathbf{n}}{\pmathbf{n}} \));
    }
    return 0;
}
```

```
#include <stdio.h>
int main()
{

    unsigned int x, y, z:
    printf("Enter x, y and z Yn"):
    scanf("$d %d %d", &x, &y, &z):
    // odd or even number (x)
    if (x % 2 == 0)
    {
        printf("x is even Yn"):
    }
    else
    {
        printf("x is odd Yn"):
    }
    // parity of two numbers
    if ((x % 2 == 0 && y % 2 == 0) || (x % 2 != 0 && y % 2 != 0))
    {
        printf("x and y have the same parity Yn"):
    }
    else
    {
        printf("x and y don't have the same parity Yn"):
    }
    // one of the three variavbles is even
    if (x % 2 == 0 || y % 2 == 0 || z % 2 == 0)
    {
        printf("One of the three variables is even ! Yn"):
    }
    else
    {
        printf("The three variables are odd ! Yn"):
    }
    return 0:
```

```
#include <stdio.h>
int main()
    unsigned int x, y, z;
    printf("Enter x, y and z \u2147");
scanf("%d %d %d", &x, &y, &z);
    if (x \% 2 == 0)
        printf("x is even \u22a4n");
    else
         printf("x is odd \u20a4n");
    if ((x \% 2 == 0 \&\& y \% 2 == 0) || (x \% 2 != 0 \&\& y \% 2 != 0))
        printf("x and y have the same parity \u20ac4n");
    else
         printf("x and y don't have the same parity \u20acmn");
        printf("One of the three variables is even ! \u21an");
        printf("The three variables are odd ! \u20a4n");
    if (x % 2 == y % 2 || x % 2 == z % 2 || y % 2 == z % 2)
         printf("Two of the three variables have the same parity \underset n");
    else
         printf("Three variables don't have the same parity , which is impossible ! ? \underset n");
    return 0;
```

```
#include <stdio.h>
int main()
    unsigned int x, y, z;
    char answer;
    printf("Enter x, y and z \u20e4n");
    scanf("%d %d %d", &x, &y, &z);
    printf("The menu : Yn a-odd or even number Yn b-parity of two numbers Yn c-one of the three variables is
even\(\frac{1}{2}\)n other-two of the three variables have the same parity \(\frac{1}{2}\)n");
    scanf("%s", &answer);
    switch (answer)
    case 'a':
         if (x \% 2 == 0)
            printf("x is even \u22a4n");
        else
            printf("x is odd \u20a4n");
    case 'b':
         if ((x \% 2 == 0 \&\& y \% 2 == 0) || (x \% 2 != 0 \&\& y \% 2 != 0))
             printf("x and y have the same parity \mathbf{Y}n");
        else
             printf("x and y don't have the same parity \u21a1n");
        break;
    case 'c':
             printf("One of the three variables is even ! \u21a1n");
            printf("The three variables are odd ! \u22an");
        break;
    default:
         if (x % 2 == y % 2 || x % 2 == z % 2 || y % 2 == z % 2)
             printf("Two of the three variables have the same parity \underset n");
    return 0;
```

Exercice 4:

```
#include <stdio.h>
int main()
    float a, b;
    char operator;
    printf("Enter a and b \u20a4n");
    scanf("%f %f", &a, &b);
    printf("Enter the operator ! \u20e4n");
    scanf("%s", &operator);
    switch (operator)
    case '/':
        printf("%f %c %f = %f", a, operator, b, a / b);
        break:
        printf("%f %c %f = %f", a, operator, b, a + b);
        break;
    case '-':
        printf("%f %c %f = %f", a, operator, b, a - b);
       break:
        printf("%f %s %f = %f", a, operator, b, a * b);
    default:
    return 0;
```

Exercice 5:

```
#include <stdio.h>
int main()
{

    float r1, r2, r3:
    char plug;
    printf("Enter R1, R2 and R3 \n"):
    scanf("\%f \%f \%f", \&r1, \&r2, \&r3):
    printf("Enter the PLug type! \neq the p-parallel \neq the result \neq the res
```

Exercice 6:

Exercice 7: