

Question a

Please print `char`, `short`, `int`, `float`, and `double` variable's memory size.

```
char's memory size: 1 byte
short's memory size: 2 bytes
int's memory size: 4 bytes
float's memory size: 4 bytes
double's memory size: 8 bytes
Process returned 0 (0x0)   execution time : 0.047 s
Press any key to continue.
```

Question b

Input a Celsius temperature and then output a Fahrenheit temperature.

Formula: $F = (C * 9/5) + 32$

```
Please enter a Celsius temperature: 50  
Fahrenheit temperature is 122.00.  
Process returned 0 (0x0)   execution time : 1.977 s  
Press any key to continue.
```

Question c

Write a program that accepts a date from the user in the form `mm/dd/yyyy` and then displays it in the form `yyyymmdd`:

```
Please enter a data (format: mm/dd/yyyy): 09/18/2018
your input data is 20180918.
Process returned 0 (0x0)   execution time : 6.639 s
Press any key to continue.
```

Question d

Input a char and then **print it** and **its ASCII code**.

```
Please enter a char: a  
your char is 'a', it ASCII code is 97.  
Process returned 0 (0x0)   execution time : 7.605 s  
Press any key to continue.
```

Question e

Please write a program, input a **lower case char**, output **an uppercase char**.
If the input is uppercase, output has to keep uppercase char.

```
Please enter a char: a
The uppercase char is A.
Process returned 0 (0x0)   execution time : 6.461 s
Press any key to continue.
```

Question f (bonus)

Please write a program to determine whether the input number is odd or even. If the input number is **-1**, **end the program**.

If the number is **odd**, the output shows "**The number is odd**".

If the number is **even**, the output shows "**The number is even**".

```
Please enter a number: -10
The number is even.
Please enter a number: 77
The number is odd.
Please enter a number: -1

Process returned 0 (0x0)   execution time : 7.827 s
Press any key to continue.
```