C Programming Language

--Basic Programs to Practice—

Day 02

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```c
C uppertolower.c > ⦿ main()
  1    // Program to read character in uppercase and print in lowercase.
  2    #include<stdio.h>
  3    void main()
  4    {
  5        char ch;
  6        printf("Enter a character in uppercase:");
  7        scanf("%c",&ch);
  8        printf("The lower case character of %c is %c",ch,ch+32);
  9    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   ⟩ Code + ∨ ⊓ 🗑 ⋯ ∧ ✕

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc uppertolower.c -o uppertolower } ; if ($?
) { .\uppertolower }
Enter a character in uppercase:A
The lower case character of A is a
PS C:\c all progams>
```

```c
1    // Program to read character in lowercase and print in upperrcase.
2    #include<stdio.h>
3    void main()
4    {
5        char ch;
6        printf("Enter a character in lowercase:");
7        scanf("%c",&ch);
8        printf("The uppercase character of %c is %c",ch,ch-32);
9    }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   > Code + ∨ ⊓ ⊓ … ^ X

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc uppertolower.c -o uppertolower } ; if ($?
) { .\uppertolower }
Enter a character in lowercase:c
The uppercase character of c is C
PS C:\c all progams>
```

```c
//Program to understand double quotes escape sequence.
//Program to print Hello world in double quotes.
#include<stdio.h>
void main()
{
    printf("\"Hello world\"");
}
```

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc doubleqoutes.c -o doubleqoutes } ; if ($?
) { .\doubleqoutes }
"Hello world"
PS C:\c all progams>
```

```c
// Program to convert dollars into rupees.
// 1 USD=82.74 rupees
#include<stdio.h>
void main()
{
    float dollars,rupees;
    printf("Enter the amount in dollars:");
    scanf("%f",&dollars);
    rupees=(dollars*82.74);
    printf("%.2f dollars is equal to %.2f rupees",dollars,rupees);
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc dollarstorupees.c -o dollarstorupees } ;
if ($?) { .\dollarstorupees }
Enter the amount in dollars:10
10.00 dollars is equal to 827.40 rupees
PS C:\c all progams>
```

```c
C rupeestodollars.c > ⊙ main()
1    // Program to convert rupees into dollars.
2    // 82.74 rupees=1 USD
3    #include<stdio.h>
4    void main()
5    {
6        float dollars,rupees;
7        printf("Enter the amount in rupees:");
8        scanf("%f",&rupees );
9        dollars=rupees/82.74;
10       printf("%.2f rupees is equal to %.2f dollars",rupees,dollars);
11   }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   ▷ Code ➕∨ ⊓ 🗑 ⋯ ∧ ✕

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc rupeestodollars.c -o rupeestodollars } ;
if ($?) { .\rupeestodollars }
Enter the amount in rupees:1000
1000.00 rupees is equal to 12.09 dollars
PS C:\c all progams>
```

```c
// Program to convert kiloneters into meters and centimeters
// 1 km=1000m,10000cm
#include <stdio.h>
void main()
{   float kilometers, meters, centimeters;
    printf("Enter the distance in kilometers: ");
    scanf("%f", &kilometers);
    meters = kilometers * 1000;
    centimeters = kilometers * 100000;
    printf("%.2f kilometers is equal to %.2f meters and %.2f centimeters\n", kilometers, meters, centimeters);
}
```

```c
// Program to print the digit at one's place
#include<stdio.h>
void main()
{
    int num,digit_ones;
    printf("Enter any number:");
    scanf("%d",&num);
    digit_ones=num%10;
    printf("The digit at one's place of %d is %d",num,digit_ones);
}
```

```
{ .\digitatones }
Enter any number:256
The digit at one's place of 256 is 6
PS C:\c all progams>
```

```c
// Program to convert float number into integer.
#include<stdio.h>
void main()
{
    float a;
    int b;
    printf("Enter a floting point number:");
    scanf("%f",&a);
    b=(int)a;
    printf("The integer variant of %.2f is %d",a,b);
}
```

```c
// Program to read an integer from the user and display its value in
// decimal, octal, and hexadecimal formats.
#include <stdio.h>
void main() {
  int number;
  printf("Enter an integer: ");
  scanf("%d", &number);
  printf("Decimal: %d\n", number);
  printf("Octal: %o\n", number);
  printf("Hexadecimal: %x\n", number);
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
if ($?) { .\diffplceholders }
Enter an integer: 15
Decimal: 15
Octal: 17
Hexadecimal: f
PS C:\c all progams>
```

```c
C simpleinterest.c > ⊙ main()
1    //Program to calculate simple interest.
2    #include<stdio.h>
3    void main()
4    {
5        float p,t,r,SI;
6        printf("Enter the Principal amount:");
7        scanf("%f",&p);
8        printf("Enter time period (in years):");
9        scanf("%f",&t);
10       printf("Enter rate of interest:");
11       scanf("%f",&r);
12       SI=(p*t*r)/100;
13       printf("Simple Interest:%.2f",SI);
14   }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   >_ Code + ∨ ⊓ ⬚ ⋯ ^ ✕

Enter the Principal amount:1000
Enter time period (in years):2
Enter rate of interest:5
Simple Interest:100.00
PS C:\c all progams>

```c
// Program to convert minutes to hours .
/* logic-     60)200(3-hours
                180
                _____
                20 -minutes
*/
#include<stdio.h>
void main()
{
    int min,hrs,rmin;
    printf("Enter number of minutes:");
    scanf("%d",&min);
    hrs=min/60;
    rmin=min%60;
    printf("%d minutes =%d hours %d minutes",min,hrs,rmin);
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\c all progams> cd "c:\c all progams\" ; if ($?) { gcc mintohrs.c -o mintohrs } ; if ($?) { .\mintohrs }
Enter number of minutes:200
200 minutes =3 hours 20 minutes
PS C:\c all progams>
```

```c
// Program to take days and convert them into years,days,weeks.
// assming days input as 1000
// logic -      365)1000(2 -years
//                   730
//                   _____
//                   270  ------->  7)270(38 - weeks
//                                    266
//                                    ____
//                                    4   -days
#include<stdio.h>
void main()
{
    int days,yrs,wks,rdays;
    printf("Enter number of days:");
    scanf("%d",&days);
    yrs=days/365;
    wks=(days%365)/7;
    rdays=(days%365)%7;
    printf("%d days=%d years %d weeks %d days.",days,yrs,wks,rdays);
}
```

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