

Assignment : 3

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

```
    int a = 125, b = 12345;
```

```
    long ax = 1234567890;
```

```
    short s = 4043;
```

```
    float x = 2.13459;
```

```
    double dx = 1.1415927;
```

```
    char c = 'w';
```

```
    unsigned long ux = 2541567890;
```

```
    printf("a+c = %d\n", a+c);
```

```
    printf("x+c = %.f\n", x+c);
```

```
    printf("dx+x = %.f\n", dx+x);
```

```
    printf("( (int) dx ) + ax = %ld\n", ((int) dx) + ax);
```

```
    printf("a+x = %.f\n", a+x);
```

```
    printf("s+b = %d\n", s+b);
```

```
    printf("ax+b = %ld\n", ax+b);
```

```
    printf("s+c = %hd\n", s+c);
```

```
    printf("ax+c = %ld\n", ax+c);
```

```
    printf("ax+ux = %lu\n", ax+ux);
```

```
    return 0;
```

```
}
```

Output :

a+c = 212
x+c = 89.134590
dx+x = 3.276183
(int) dx + ax = 1234567891
ax = 127.134590
s+b = 16388
ax+b = 1234580235
s+c = 4130
ax+c = 1234567977
ax+ux = 3776135780.

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

int days, years, weeks;

days = 1329;

years = days / 365;

weeks = (days % 365) / 7;

days = days - (years * 365) + (weeks * 7);

printf("years: %d\n", years);

printf("weeks: %d\n", weeks);

printf("Days: %d\n", days);

return 0;

}

output:

years: 3

weeks: 3

Days: 3

```

(3) #include <stdio.h>
int main()
{
    double w1, c1, w2, c2, result;
    printf("Weight - item 1:");
    scanf("%lf", &w1);
    printf("No. of item 1:");
    scanf("%lf", &c1);
    printf("Weight - item 2:");
    scanf("%lf", &w2);
    printf("No. of item 2:");
    scanf("%lf", &c2);
    result = (w1 * c1) + (w2 * c2) /
              (c1 + c2);
    printf("Average value = %lf\n",
           result);
    return 0;
}

```

output :

```

Weight - item 1 : 15
No. of item 1 : 5
Weight - item 2 : 25
No. of item 2 : 4
Average value : 19.444444

```

```

(4) #include <stdio.h>
int main()
{
    enum week {Sun, Mon, Tue, Wed, Thu, Fri, Sat}
    printf("Sun = %d", Sun);
    printf("\n Mon = %d", Mon);
    printf("\n Tue = %d", Tue);
    printf("\n Wed = %d", Wed);
    printf("\n Thu = %d", Thu);
}

```

```

printf("Sun = %d", Sun);
printf("Mon = %d", Mon);
printf("Tue = %d", Tue);
printf("Wed = %d", Wed);
printf("Thu = %d", Thu);
printf("Fri = %d", Fri);
printf("Sat = %d", Sat);
return 0;
}

```

output :
 Sun : 0
 Mon : 1
 Tue : 2
 Wed : 3
 Thu : 4
 Fri : 5
 Sat : 6

(5) #include <stdio.h>

float tempf;

float tempc;

char line_text[50];

int main()

{

```

printf("Input a temperature (in Centigrade)");
fgets(line_text, sizeof(line_text), stdin);
sscanf(line_text, "%f", &temp_c);
temp_f = ((9.0/5.0) * temp_c) + 32.0;
printf("%f degree Fahrenheit\n", temp_f);
return 0;
}

```

output :

Input a temperature (in Centigrade):
 13.0000 degree Fahrenheit

6) #include <stdio.h>
int tet, mins;

int hrs;

int mins;

scanf("%d", &mins);

scanf("%d", &hrs);

int main() {

printf("Input minutes:");

scanf("%d", &mins);

printf("Input:");

scanf("%d", &hrs);

printf("Input:");

scanf("%d", &mins);

}

Output:

Input minutes: 549

9 hours, 9 mins.

19) #include <stdio.h>

int main() {

{

float rec_width;

float rec_height;

float rec_perimeter;

printf("Input the height of the rectangle:");

scanf("%d", &rec_height);

printf("Input the width of the rectangle:");

scanf("%d", &rec_width);

printf("Perimeter: %d", rec_perimeter);


```
printf ("Perimeter of the Rectangle is :  
%d\n", rec_perimeter);
```

rectangle:

output:

Input the height of the rectangle:
Input the width of the rectangle:
Perimeter of the rectangle is : 24

(8) #include <stdio.h>

```
int main()
```

```
{  
    int a=9, b=3, c;
```

```
    c = a+b;
```

```
    printf ("a+b = %d\n", c);
```

```
    c = a/b;
```

```
    printf ("a/b = %d\n", c);
```

```
    c = a*b;
```

```
    printf ("a*b = %d\n", c);
```

```
    c = a>b;
```

```
    printf ("a>b = %d\n", c);
```

```
    c = a<b;
```

```
    printf ("a<b = %d\n", c);
```

```
    return 0;
```

```
}
```

output: ~~code~~

12
3
27
1

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

```
    int a = 12, b = 25;
    printf ("Output = %d", a < b);
    printf ("Output = %d", a < b);
    printf ("a > b = %d\n", a > b);
    printf
}
```

Output: 8
29
6

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

```
    int intType;
    float floatType;
    double doubleType;
    char charType;
    printf ("Size of int: %zu bytes\n",
            sizeof(intType));
    printf ("Size of float: %zu bytes\n", sizeof(floatType));
    printf ("Size of double: %zu bytes\n", sizeof(doubleType));
    printf ("Size of char: %zu bytes\n", sizeof(charType));
    return 0;
}
```

Output: Size of int: 4 byte
Size of float: 4 byte
Size of double: 8 byte
Size of char: 1 byte.