

ASSIGNMENT - 3

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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("a+ux : %f\n", a+ux);

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 : %.ld\n", ax+ux);

return 0;

}

Output:- a+c : 212

x+c : 89.134590

dx+x : 3.276183

a+ux : 127.134590

s+b : 16388

ax+b : 1234580235

s+c : 4130

ax+c : 1234567977

ax+ux : 3776135780

②

```
#include <stdio.h>
```

```
int main ()  
{
```

```
    int years, weeks, days;
```

```
    days = 1224;
```

```
    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 : 18
days : 3

3.

```
#include <stdio.h>
int main()
{
    float item1, item2, no_of_purchase1, no_of_purchase2,
        result;
    printf("Enter the weight of first item: ");
    scanf("%f", &item1);
    printf("Enter the weight of second item: ");
    scanf("%f", &item2);
    printf("Enter the no. of first purchase: ");
    scanf("%f", &no_of_purchase1);
    printf("Enter the no. of second purchase: ");
    scanf("%f", &no_of_purchase2);
    result = ((item1 * no_of_purchase1) + (item2 * no_of_
        purchase2)) / (no_of_purchase1 + no_of_purchase2);
    printf("Average value of items: %.2f\n", result);
    return 0;
}
```

Output:- Enter the weight of first item: 56.80
Enter the weight of second item: 35.50
Enter the no of first purchase: 3
Enter the no of second purchase: 6
Average value of items: 42.59998

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④ #include <stdio.h>
enum days {Mon = 5, Tue = 11, Wed, Thurs,
Fri = 9, Sat, Sun};
int main ()
{
printf ("The value of enumerated days :
%d %d %d %d %d %d",
Mon, Tue, Wed, Thurs, Fri, Sat);
return 0;
}

Output :- The value of enumerated days : 5 11
12 13 9 10 0

⑤ #include <stdio.h>
int main ()
{
int c;
float f;
printf ("Enter the temperature in celsius : ");
scanf ("%d", &c);
f = (c * 9 / 5) + 32;
printf ("degree in fahrenheit : %.f ", f);
return 0;
}

Output :- Enter the temperature in celsius : 5
degree in fahrenheit : 41.000000

⑥.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int total_mins, hours, min;
```

```
    printf("enter the total no. of minutes: ");
```

```
    scanf("%d", &total_mins);
```

```
    hours = total_mins / 60;
```

```
    min = total_mins % 60;
```

```
    printf("total hours: %d \n total minutes: %d",  
          hours, min);
```

```
    return 0;
```

```
}
```

Output:- enter the total no. of minutes: 345

total hours: 5

total minutes: 45

⑦.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int height, width, perimeter;
```

```
    printf("enter the height: ");
```

```
    scanf("%d", &height);
```

```
    printf("enter the width: ");
```

```
    scanf("%d", &width);
```

```
    perimeter = 2 * (height + width);
```

```
    printf("Perimeter of rectangle: %d", perimeter);
```

```
    return 0;
```

```
}
```

Output:- enter the height: 5

enter the width: 10

perimeter of rectangle: 30

⑧. #include <stdio.h>

```
int main ()  
{
```

```
    int a = 6, b = 3, c ;
```

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

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

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

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

```
    c % = a ;
```

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

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

```
    printf ("%d != %d is %d\n", a, b, a != b) ;
```

```
    return 0 ;
```

3 Out

Output :- a+b : 9

a/b : 2

c% = : 2

6 >= 3 is 1

6 != 3 is 1

(9).

```
#include <stdio.h>
```

```
int main ()  
{
```

```
    int a = 12, b = 14 ;
```

```
    printf ("%d", a & b);
```

```
    printf ("%d", a >> b);
```

```
    printf ("%d", a | b);
```

```
    printf ("%d", a | b);
```

```
    return 0;
```

Output :-

12

0

1

14

(10). #include < stdio.h >
int main ()
{
 int a ;
 float b ;
 char c ;
 double d ;
 printf ("Size of integer: %lu bytes \n", sizeof (a)) ;
 printf ("Size of float: %lu bytes \n", sizeof (b)) ;
 printf ("Size of char: %lu bytes \n", sizeof (c)) ;
 printf ("Size of double: %lu bytes \n", sizeof (d)) ;
 return 0 ;
}

Output :— Size of integer: 4 bytes
Size of float: 4 bytes
Size of char: 1 byte
Size of double: 8 bytes