

Assignment 2

①

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

```
int main()
```

```
{
```

```
int a;
```

```
printf("Enter a number");
```

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

```
printf("Unit digit of %d is %d", a, a%10);
```

```
getch();
```

```
return 0;
```

```
}
```

a =

453

② #include <stdio.h>

```
int main()
```

```
{
```

```
int a;
```

```
printf("Enter a number");
```

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

```
printf("The digit %d is %d",
```

```
printf("The number %d without its last digit is %d",  
a, a/10);
```

```
return 0;
```

```
}
```


③ #include <stdio.h>

int main()
{

int a, b, c;

printf("Enter 2 numbers");

scanf("%d %d", &a, &b);

printf("a=%d and b=%d", a, b);

printf("After swapping value of variables");

~~sw~~ c=a;

a=b;

b=c;

printf("a=%d and b=%d", a, b);

return 0;

}

a
10 b
20

c
10 a
20

b
10

④ #include <stdio.h>

int main()
{

int a, b;

printf("Enter 2 numbers");

scanf("%d %d", &a, &b);

printf("a=%d and b=%d", a, b);

printf("After swapping values of variables");

a=a+b;

b=a-b;

a=a-b;

printf("a=%d and b=%d", a, b);

return 0;

}

a b
10 20

a b
30 10

a
20


```

5) #include <stdio.h>
int main()
{
    int a, b, c;
    printf("Enter 3 digit number\n");
    scanf("%d", &a);
    c = a;
    b = b + c % 10;
    c = c / 10;
    b = b + c % 10;
    c = c / 10;
    b = b + c % 10;
    printf("The sum of %d is %d", a, b);
    return 0;
}

```

a	c	b
254	254	0
b	$0 + 254 \% 10$	
4	$0 + 4$	
02 c		
	25	
b	$4 + 25 \% 10$	
9	$4 + 5$	
c		
2	$9 + 2 \% 10$	
b	$9 + 2$	
11		

```

6) #include <stdio.h>
int main()
{
    char
    int a;
    printf("Enter a character\n");
    scanf("%c", &a);
    printf("The ASCII Code of %c is %d", a, a);
    return 0;
}

```



```

7) #include <stdio.h>
    int main()
    {
        int a, count=0;
    }

```

6 = 110
MSB
a = 5
101
10001
a & 1

```

8) #include <stdio.h>
    int main()
    {
        int a;
        printf("Enter a number");
        scanf("%d", &a);
        if(a & 1)
            printf("%d is odd", a);
        else
            printf("%d is even", a);
    }

```

a
3
00000101
00000001
00000001

a
4
00000100
00000001
00000000


```

(9) #include <stdio.h>
int main()
{
    int a;
    printf("Size of int is %d", sizeof(a));
    float k;
    printf("Size of float is %d", sizeof(k));
    char m;
    printf("Size of char is %d", sizeof(m));
    double d;
    printf("Size of double is %d", sizeof(d));
    return 0;
}

```

```

(10) #include <stdio.h>
int main()
{
    int a, b;
    printf("Enter a number");
    scanf("%d", &a);
    b = a;
    b = b/10;
    b = b*10;
    printf("%d", b);
    return 0;
}

```

a = 2345

b
2345

b
234

b
2340

⑪ #include <stdio.h>

int main()

{

int a, b;

printf("Enter a number and a digit");

scanf("%d %d", &a, &b);

printf("The resulting number after appending %d in
%d is %d", b, a, (a*10 + b));

⑫ #include <stdio.h>

int main()

{

char a;

printf("Enter a character");

scanf("%c", &a);

if ((a > 'a' && a <= 'z') || (a > 'A' && a <= 'Z'))

printf("Character");

else if (a > '0' && a <= '9')

printf("Digit");

else printf("special character");

⑬ #include <stdio.h>

int main()

{

int a;

printf("Enter a ~~number~~ 3-digit number");

scanf("%d", &a);