

Assignment - 2

① Write a program to print unit digit of a given number?

→ #include <stdio.h>

int main()

{

int n, n2, i;

printf("\n enter a number");

scanf("%d", &n);

n2 = n % 10;

printf("\n unit digit of %d is : %d", n, n2);

for (i = 2; i <= n2 / 2; ++i)

{

if (n2 % i == 0)

{

printf("\n multiple of %d is : %d", n2, i);

}

}

return 0;

}

Output: Enter a number 479
unit digit of 479 is: 9
multiple of 9 is: 3

② write a program to print a given number without its last digit.

→ #include <stdio.h>

int main()

{

int n, Sum = 0, First Digit, last Digit;

printf("Enter number = ");

scanf("%d", &n);

```

lastDigit = n/10;
while(n >= 10)
{

```

```

    n = n/10;

```

```

}

```

```

firstDigit = n;

```

```

printf("first digit = %d and last digit = %d\n",
firstDigit, lastDigit);

```

```

return 0;

```

```

}

```

output = Enter number = 459

first digit = 4 and last digit = 9

③ Write a program to Swap Values of two int Variables

```

#include <stdio.h>

```

```

int main()

```

```

{

```

```

    int x, y, z;

```

```

    printf("Enter the Value of x and y");

```

```

    scanf("%d %d", &x, &y);

```

```

    printf("before swapping numbers: %d %d\n", x, y);

```

```

    z = x;

```

```

    x = y;

```

```

    y = z;

```

```

    printf("After swapping: %d %d", x, y);

```

```

    return 0;

```

```

}

```

- ④ Write a program to swap values of two int variables without using a third variable.

→ #include <stdio.h>

int main()

{

int x, y;

printf("Enter the value of x and y?");

scanf("%d %d", &x, &y);

printf("before swapping numbers: %d %d\n", x, y);

x = x + y;

y = x - y;

x = x - y;

printf("After Swapping: %d %d", x, y);

return 0;

}

output Enter the value of x and y?

12

13

before swapping numbers: 12 13

After swapping: 13 12

- ⑤ Write a program to input a three-digit number and display the sum of the digits.

#include <stdio.h>

int main()

{

int a, b;

printf("enter a three digits number\n");

scanf("%d", &a);

b = a / 100 + (a / 10) % 10 + a % 10;

printf("sum of all three digits = %d", b);

return 0;

}

- ⑥ write a program which takes a character as an input and displays its ASCII Code.

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

- ⑦ write a program to find the position of first 1 in LSB

```
#include <stdio.h>
int main()
{
    int n, R, count = 0;
    printf("Enter a number\n");
    scanf("%d", &n);
    while (n != 0)
    {
        R = n & 1;
        count++;
        if (R == 1)
        {
            printf("Position of first 1 in LSB = %d", count);
            break;
        }
        n = n >> 1;
    }
    return 0;
}
```

- ⑧ write a program to check whether the given number is ~~even~~ even or odd using a bitwise operator.

```
#include <stdio.h>
int main()
{
    int n, m;
```

```

printf("Enter the number\n");
scanf("%d", &n);
(n % 2 == 0 ? printf("odd") : printf("Even"));
return 0;
}

```

⑨ write a program to print size of an int, a float, a char and a double type variable.

```

#include <stdio.h>
int main()
{
    printf("*****\n");
    printf("Size of int is - %d\n", sizeof(int));
    printf("Size of char is - %d\n", sizeof(char));
    printf("Size of float is - %d\n", sizeof(float));
    printf("Size of double is - %d\n", sizeof(double));
    return 0;
}

```

⑩ write a program to make the last digit of a number stored in a variable as zero.

```

#include <stdio.h>
int main()
{
    int n;
    printf("Enter a number\n");
    scanf("%d", &n);
    printf("after last digit zero the number is %d", (n/10)*10);
    return 0;
}

```

⑪ write a program to input a number from the user and also input a digit. Append a digit in the number and print the resulting number.

```

#include <stdio.h>
int main()
{
    int n, m, o;
    printf("Enter a number\n");
    scanf("%d", &n);
    printf("Enter a append number\n");
    scanf("%d", &m);
    o = (n * 10 + m);
    printf("result is = %d", o);
    return 0;
}

```

②

Assume price of 1 USD is INR 76.23. write a program to take the amount INR and convert it into USD.

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

```
int main()
```

```
{
```

```
float x, INR = 76.23;
```

```
printf("Enter amount in INR\n");
```

```
scanf("%f", &x);
```

```
printf("Total amount in USD = %f", x/INR);
```

```
return 0;
```

```
}
```

③

write a program to take a three-digit number from the user and rotate its digits by one position towards the right.

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

```
int main()
```

```
{
```

```
int x, y, z;
```

```
printf("Enter a three digits number\n");
```

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

```
y = x % 10;
```

```
x = x / 10;
```

```
z = 100 * y + x;
```

```
printf("After rotating one position forward right\n%d", z);
```

```
return 0;
```

```
}
```