

Assignment - 1

- ① write a program in C to display your name and address on computer screen.

Ans: #include <stdio.h>

void main()

{

printf("I'm Shankar Ghosh");

printf("I'm Bakul Prada");

out put

Shankar Ghosh

Bakul Prada

- ② write a program in C to add two integer numbers.

Ans: #include <stdio.h>

int main()

{

int x, y, z;

printf("Enter two numbers to add in");

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

z = x + y;

printf("Sum of the numbers = %d\n", z);

return 0;

out put

Enter two integer numbers: 10 20

Sum = 30

③ write a program in C to compute the value of x in this expression $x = 20 / (8 - 4) \cdot 8 - 2$

Ans- `#include <stdio.h>`

`void main`
`{`

`int x;`

`x = 20 / (8 - 4) * 8 - 2;`

`printf("x = %d", x);`

`}`

out put

$x = 38$

④ write a program in C to a quotient and remainder.

Ans: `#include <stdio.h>`

`void main()`

`{ int dividend, divisor, quotient, remainder;`

`printf("Enter dividend: ");`

`scanf("%d", ÷nd);`

`printf("Enter divisor: ");`

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

`quotient = dividend / divisor;`

`remainder = dividend % divisor;`

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

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

`}`

out put

Enter dividend: 46

Enter divisor: 4

Quotient = 11

Remainder = 2

⑤ write a program in C to swap the value of two integer numbers

Ans: #include <stdio.h>

void main()

{

int n1, n2, temp;

n1 = 10;

n2 = 20;

temp = n1;

n1 = n2;

n2 = temp;

printf("In before Swapping, n1 number = %d", n1);

printf("In After Swapping, n2 number = %d", n2);

}

out put

before Swapping n1 number = 20

after Swapping n2 number = 10

⑥ Find the write a program to find the largest of three numbers.

Ans: #include <stdio.h>

```
void main() {
```

```
    int n1, n2, n3, largest;
```

```
    printf("Enter three number:");
```

```
    scanf("%d %d %d", &n1, &n2, &n3);
```

```
    if (n1 > n2)
```

```
        largest = n1;
```

```
    else
```

```
        largest = n2;
```

```
    if (n3 > largest)
```

```
        largest = n3;
```

```
    printf("largest number is %d", largest);
```

```
}
```

Output

Enter three number: 30, 20, 40

largest number is 40

⑦ write a program to check whether a integer number is even or odd.

Ans: #include <stdio.h>

```
void main()
```

```
{
```

```
    int num
```



```

Print("Enter a number:");
Scanf("%d", &sum);
If (sum%2 == 0) {
    Print("Even number");
}
else
    Print("odd number");
}

```

out put

enter a number = 12
even number

⑧ write a program to display any table of any integer number.

```

Ans: #include <stdio.h>
void main() {
    int n;
    Print("enter an integer:");
    Scanf("%d", &n);
    for (i=1; i<=10; ++i) {
        Print("%d x %d = %d\n", n, i, n*i);
    }
}

```

out put

Enter an integer: 9

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

Q write a program to calculate display first term from of the Fibonacci sequence.

Ans: The Fibonacci Sequence = 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

Program =

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

```
void main() {
```

```
int i, n, f1, 0, f2, next term;
```

```
printf("Enter the number of terms: ");
```

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

```
printf("Fibonacci Series: ");
```

```
for (i=1; i<=n; i++) {
```

```
printf("%d ", f1);
```

```
next term = f1 + f2;
```

```
f1 = f2;
```

```
f2 = next term;
```

```
}
```

```
}
```

```
getch();
```

Enter the number of terms = 10

Fibonacci Series = 0, 1, 1, 2, 3, 5, 8, 13, 21, 34

10) write a program to calculate the sum digits of an integer number.

Ans: ~~#~~ include <stdio.h>

```
void main() {  
    int n, sum=0, digit;
```

```
    printf("Enter an integer: ");
```

```
    scanf("%d", &n)
```

```
{
```

```
    digit = n % 10;
```

```
    sum = sum + digit;
```

```
    n = n / 10;
```

```
}
```

```
    printf("Sum of the digit = %d", sum);
```

```
}
```

```
getch();
```

enter a integer = 142

Sum of the digits = 7

11) write a program to reverse the integer number.

Ans: ~~#~~ include <stdio.h>

```
void main() {  
    int n, rev=0, digit;
```

```
    printf("Enter an integer: ");
```

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

```
    while (n != 0) {
```

```

digit = n % 10;
rev = rev * 10 + digit;

```

```

n = n / 10

```

```

}

```

```

printf("reversed number = %d", rev);

```

```

}

```

output

Enter an integer: 345
 Reverse number = 543

12) write a program to calculate factors of positive integer.

Ans: #include <stdio.h>

```

void main() {

```

```

    int num;

```

```

    printf("Enter a positive integer: ");

```

```

    scanf("%d", &num);

```

```

    printf("Factors of %d are: ", num);

```

```

    for (i = 1; i <= num; i++) {

```

```

        if (num % i == 0) {

```

```

            printf("%d ", i);

```

```

        }

```

```

    }

```

```

}

```

output

enter a positive integer = 10
 Factors of 10 are = 1, 2, 5, 10