

## Assignment - 7

```
① #include <stdio.h>
int main()
{
    int n, i, x = 0, y = 1, sum;
    printf("Enter a number");
    scanf("%d", &n);
    if (n == 0)
        printf("0");
    if (n == 1)
        printf("1");
    for (i = 2; i <= n; i++)
    {
        sum = x + y;
        int temp;
        temp = x;
        x = y;
        y = sum;
    }
    printf("%d", sum);
    return 0;
}
```

② #include <stdio.h>

int main()

{

int m, i, x=0, y=1, s;

printf("0\n");

printf("01\n");

for(i=2; i, i++)

{

s = x + y;

m = x;

x = y;

y = s;

printf("%d\n", s);

}

return 0;

}

3) #include <stdio.h>

int main()

{  
int i, x=0, y=1, n, s, m;

printf("Enter a number");

scanf("%d", &n);

while(1)

{

s = x+y;

m = x;

x = y;

y = s;

If (n==0)

{

printf("Fibonacci series");

break;

}

If (n==s)

{

printf("Fibonacci series");

break;

}

else

{

printf("not Fibonacci series");

break;

}

return 0;

}



```
④ #include <stdio.h>
int main()
```

```
{ int a, b, c, HCF;
```

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

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

```
if (a > b)
```

```
    c = a;
```

```
else c = b;
```

```
for (int i = 1; i <= c; i++)
```

```
{ if (a % i == 0 && b % i == 0)
    HCF = i;
```

```
}
```

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

```
return 0;
```

```
}
```

#include <stdio.h>

int main()

{

int a, b, c, i, m

printf("enter a number");

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

If (a > b)

c = a

else

c = b

for (i = 1; i <= c; i++)

If (a % i == 0 && b % i == 0)

m = i

}

If (m == 1)

printf("Number is co-prime");

{

else

printf("Number is not co-prime");

return 0;

}

⑥ #include <stdio.h>

int main()

{ int i, j;

for (int i=2; i<=99; i++)

{ for (j=2; j<i; j++)

if (i%j==0)

break;

if (j==i)

printf("%d", i);

return 0;

⑦

#include <stdio.h>

int main()

{ int a, b, i, j;

printf("Enter a number");

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

for (i=a; i<=b; i++)

{ for (j=2; j<i; j++)

if (i%j==0)

break;

if (j==i)

printf("%d", i);



```
⑧ #include <stdio.h>
int main()
```

```
{
    int b, i, j;
    printf("enter a number");
    scanf("%d", &b);
    for(i = b; i <= b+10; i++)
    {
        for(j = 2; j < i; j++)
            if(i % j == 0)
                break;

```

```
        if(j == i)
```

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

```
        if(j == i)
```

```
            break;

```

```
    return 0;
}
```

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

```
{
    int n, rem, sum = 0, m, p;
    printf("enter a digit");
    scanf("%d", &n);

```

~~@while~~ p = n;

while(n > 0)

{

rem = n % 10;

m = rem \* rem \* rem;

sum = sum + m;

n /= 10;

}

If (p == sum)

printf("number is armstrong");

else

printf("number is not armstrong");

return 0;

}

(10)

#include <stdio.h>

int main()

{

int i, m, sum, rem;

for (i = 101; i <= 1000; i++)

{

m = i



sum = 0

while(m != 0)

{

rem = m % 10;

sum = sum + (rem \* rem \* rem);

m /= 10;

}

If (i == sum)

printf("%d", sum);

}

return 0;

}