

```

(4) #include <stdio.h>
int main()
{
    int a, b, h;
    printf("Enter two number");
    scanf("%d %d", &a, &b);
    h = a > b ? a : b;
    for(h; h >= 1; h--)
    {
        if(a % h == 0 && b % h == 0)
            break;
    }
    printf("H.C.F of two number is %d", h);
}

```

```

(10) #include <stdio.h>
int main()
{
    int i, j, a, b, c;
    for(i = 1; i <= 9; i++)
    {
        if(i == i * i * i)
            printf("%d\n", i);
    }
    for(i = 10; i <= 99; i++)
    {
        a = i / 10;
        b = i % 10;
        if(i == a * a * a + b * b * b)
            printf("%d\n", i);
    }
    for(i = 100; i <= 1000; i++)
    {
        a = i / 10;
        j = i / 10;
        b = j / 10;
        c = j % 10;
        if(i == a * a * a + b * b * b + c * c * c)
            printf("%d\n", i);
    }
}

```


⑤ #include <stdio.h>

int main()

{

int n, s=0, n1, b;

scanf("%d", &n);

x=n;

while (n>0)

{

b=n%10;

n=n/10;

s=s+b*b*b;

}

if (x==s)

printf("Armstrong number is %d", x);

else

printf("Not a Armstrong number");

}

⑥ #include <stdio.h>

int main()

{

int i, j, x=2;

printf("prime number is \n");

for (x=2; x<=100; x++)

{

for (i=2; i<100; i++)

{

if (x%i==0)

break;

}

if (i==x)

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

}

}

⑦ #include <stdio.h>

int main()

{

int i, j, x=2, a, b;

printf("Enter a number \n");

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

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

{

for (i=2; i<100; i++)

{

if (x%i==0)

break;

}

if (i==x)

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

}

}

8

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

```
int main()
```

```
{
```

```
    int n, i, j;
```

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

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

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

```
    {
```

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

```
        {
```

```
            if (i % j == 0)
```

```
                break;
```

```
        }
```

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

```
        {
```

```
            printf("The next prime number is: %d", i);
```

```
            break;
```

```
        }
```

```
    }
```

```
}
```

9

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

```
int main()
```

```
{
```

```
    int n, i, a = -1, b = 1, c;
```

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

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

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

```
    {
```

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

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

```
        a = b;
```

```
        b = c;
```

```
    }
```

```
}
```