//HCF 2 4 =2 []

18%1 12%1

18%2 12%2

18%3 12%3

18%4

18%5

18%6 12%6

for(i=b/2;i>=1;i--) { 9 2 18 **12**

a%i==0 &&b%i==0

hcf=i

break;

}

2 6==2[]

Hcf 4 6 ==2

12 6 14 7

int a,b,i ,t,hcf=1;

a=4 b=6// 6 4 HCF=1

for(i=b/2;i>=1;i--){

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

12 34

hcf=i//1 2

} 34 12

HCF 28 6

2🡺 12 34 🡺28 16 64 16 7 5

6

for(i=b/2;i>=1;i--)

If(34%i==0&&12%i==0)

HCF=2

break;

a=4; //12 12 5 15

b=6; //34 34 6 7

if(a<b)

{

t=a;//12

a=b;//34

b=t;//12

}

if(a%b==0) //34%12

out.print("HCF="+b);

else{

for(i=b/2;i>=2;i--) //12/2 🡺6

{ // 34%6 5 4 3 2 12%6 5 4 3 2

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

{ hcf=i; //2

break;

}

}

Sopln(“HCF=”+hcf);//2

}

// 6 4 // 12 9 // 5 3

{

int a,b,reminder;

a=6,b=4; 6 4 🡺9 12 5 8

while(true)

{

reminder=a%b; 9%12=9 12%9==3 9%3

if(reminder==0)

{

out.print("hcf=%d",b);//3

break;

}

else

{

a=b; 12 9

b=reminder;//9 3

}

}

}

Or

HCF a= 6 b= 4

1

b(4)

a(6)

4

2

a =4

r=2

4

1

4 a=b;4

5

0

2 b=r 2

3

2

4/2==0 4/4==0 6 12 9 27 5 7

12%9 12%12

13%9 13%12

//LCM 2 4//4

// 9 12//36

//declare and initialize- print array using function

{ int a,b,i ,t;

a=6; //[ 5 7] [ 12 36] [6 8]🡺 5 7 1 2 8 36

b=8;

if(a<b)

LCM=a\*b/HCF 8 36

HCF=a\*b/LCM

{ t=a;

a=b;

b=t;

}

if(a%b==0) 8%6🡺f

printf("LCM=%d",a);//

else{

for(i=2; ;i++) // 6

{ t=a\*i; // 16 24

if(t%b==0) 16%6 24%6

break;

}

out.print(t);//24

}

}

Q.Accept a number from user and print its binary in reverse order eg. Input 4[100] out put 001

no=4; 3

while(no!=0){

int r=no%2;

S.o.p(r);

no=no/2

}

while(no!=0) 1!=0 1!=0 0

r=no%2🡺 o.p(r)1 **1**

no=no/2 3/2==1 1/2 0

0

1

2

2

1

2

2

2

4

0

2

4

0

0

1

int no, r; 🡺3

no=4

while(no!=0)//4 2 1 0

{

r=no%2; //0 //0 1

printf(“%d”,r); //0 0 1

no=no/2; //4/2 2/2 1/2

}

}

Q.Accept a number from user and print its binary eg. Input 4 out put 100

4/2 r==0 2/2 r==0 ½ r==1

|  |  |  |  |
| --- | --- | --- | --- |
| 0 | 1 | 2j | 3j |

int no, r,j, arr[8];

|  |  |  |  |
| --- | --- | --- | --- |
| 0 | 0 | 1 |  |

j=0;

while(no!=0)//4 2 1 0

{

r=no%2; //0

arr

arr[j++]=r;

no=no/2;

}

for(i=j-1;i>=0;i--)

printf(“%d”,arr[i]);//1 0 0

getche();

return 0;

}