आम्ही टेक्नीकल संस्कार करतो !

technOrbit Infosystems

C Language : Predict the output - 1

Note:
1. The platform considered is 32 bit.
2. All the programs are compiled on Visual Studio 2012 and 64 bit ubuntu.
3. If there is an error then mention the reason of error.
Predict the output of following programs :

1.
```c
void main()
{
  goto demo;
  int i = 10;
 test:
  printf("H");
  printf("H");
  printf("H");

  demo:
  printf("Hello");
  printf("Hello");
  printf("Hello");
  printf("Hello");
  i--;
  if(i>0)
  goto test;
}
```

2.
```c
int main()
{
printf("%d\n",-1>>3);
printf("%x\n",-1>>3);
printf("%d\n",-1<<3);
printf("%x\n",-1<<3);
return 0;
}
```

3.
```c
void fun(int x)
{
while(x)
{
if(x&(NULL+1))
printf("%d\n",x);
--x;
}
}
int main()
{
```

```
fun(25);
return 0;}
```

3.
```
void fun(int x)
{
int no = 0x1;
int cnt = 32;
while(cnt)
{
if((x & no) == 0)
printf("0");
else
printf("1");
no<<=1;
cnt--;
}
}
int main()
{
fun('a');
return 0;
}
```

4.
```
int fun(int x, int y)
{
return (x&~y|0x10);
}
int main()
{
printf("%d\n",fun(10,20));
return 0;
}
```

5.
```
int gun(int x, int y)
{
return x+y;
}
int fun(int x, int y)
{
return gun(x&~y|0x10,++x&++y);
}
int main()
{
printf("%d\n",fun(10,20));
return 0;
```

}

6.
```c
int main()
{
int no1 = 11, no2 = 21,a,b,c;
a = no1 & no2;
b = no1 | no2;
c = no1 ^ no2;
printf("%d %d %d \n",a,b,c);
return 0;
}
```

7.
```c
int main()
{
unsigned int no1 = 11;
int no2;
no2 = ~no1 + 1;
no1 = ~no1+1;
printf("%d %d\n",no1,no2);
return 0;
}
```

10.
```c
int main()
{
int no1 = 10;
int no2 = 60;
no1<<3;
no2>>3;
printf("%d %d\n",no1,no2);
return 0;
}
```

11.
```c
int main()
{
int no1 = 10;
int no2 = 60;
no2=no1<<=printf("Bits");
printf("%d %d\n",no1,no2);
return 0;
}
```

12.
```c
int main()
```

```c
{
int no1 = 10;
int no2 = 60;
no2=no1<<=printf(2+"Bits"+2-1);
printf("%d %d\n",no1,no2);
return 0;
}
```

13.
```c
int fun(int x)
{
int cnt = 0;
for(;x;x>>=1)
{
if(x&1)cnt++;
}
return cnt;
}
```

14.
```c
int main()
{
int no1 = 51;
printf("%d",fun(no1));
return 0;
}
```

15.
```c
int fun(int x)
{
int cnt = 0;
for(;x;x>>=1)
{
if(!(x&1))cnt++;
}
return cnt;
}
int main()
{
int no1 = 128;
printf("%d",fun(no1));
return 0;
}
```

16.
```c
int fun(int x)
{
return x<<2;
```

```c
}
int main()
{
int no1 = 128;
int no2 = -5;
printf("%d \n",fun(no1));
printf("%d \n",fun(no2));
return 0;
}
```

17.
```c
int main()
{
int no1 = 15;
printf("%d\n",no1<<2<<2);
printf("%d\n",no1<<(2<<2));
return 0;
}
```

18.
```c
int main()
{
int no1 = 115, no2 = 112, ans;
if(printf("%d\n",no1&no2||no1&&no2|no1))
printf("technOrbit\n");
printf("Infosystems\n");
return 0;
}
```

19.
```c
int main()
{
int no1 = 0, no2 = 0;
no1<<2||++no1==0||++no2==1;
printf("%d %d\n",no1,no2);
return 0;
}
```

20.
```c
int main()
{
int no1 = 0x10, no2 = 010, no3 = 10,a = 2;
printf("%d %d %d\n",no1<<a,no2<<a,no3<<a);
a = 0x2;
printf("%d %d %d\n",no1<<a,no2<<a,no3<<a);
return 0;
}
```

21.
```
int main()
{
int no1 = 15, no2 = 01;
printf("%d\n",(no1<<no2&no2<<14)?1:0);
printf("%d\n",(no1<<no2&&no2<<14)?1:0);
return 0;
}
```