Mawlana Bhashani Science and Technology University

Department of Information and Communication Technology

Assignment: 01

Assignment Name: Range of All Data type Works in my Device

Device info:

System type: 64-bit operating system

Window Edition: Windows 11 Home Single Language

Code Blocks Version: Code::Blocks 20.03

Submitted By
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1st Year 2nd Semester
Session: 2021-2022

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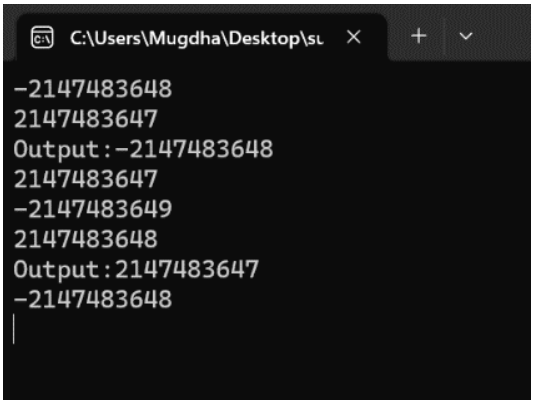
Date: 14-08-2023

1. Integer

Data Type	Format Specifier	Storage Size	Range
int	%d	4 byte	-2,147,483,648 to 2,147,483,647
			-2,147,483,648 to 2,147,483,647

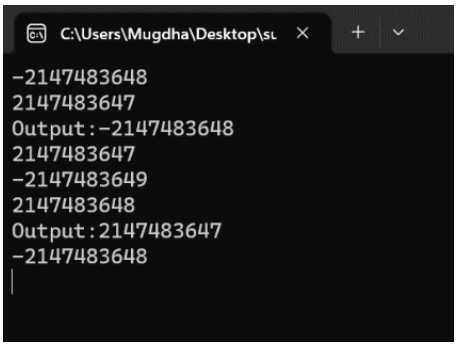
Code	INPUT/OUTPUT

#include<stdio.h>
int main(){
int Kuldip,Mugdha;
while(scanf("%d%d",&Kuldip,&Mugdha)==2){
printf("Output:%d\n%d\n",Kuldip,Mugdha);
}
return 0;
}
	

2. Long Integer

Data Type	Format Specifier	Storage Size	Range
long int	%ld	4 byte	-2,147,483,648 to 2,147,483,647
			-2,147,483,648 to 2,147,483,647

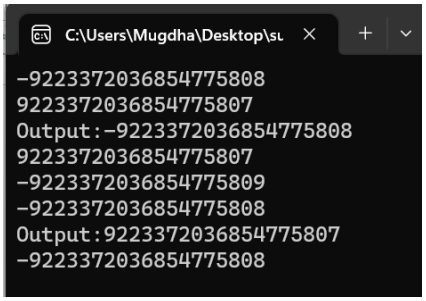
Code	INPUT/OUTPUT

#include<stdio.h>
int main(){
long int Kuldip,Mugdha;
while(scanf("%ld%ld",&Kuldip,&Mugdha)==2){
printf("Output:%ld\n%ld\n",Kuldip,Mugdha);
}
return 0;
}
	

3. Long Long Integer

Data Type	Format Specifier	Storage Size	Range
long long int	%lld	8 byte	-9223372036854775808 to 9223372036854775807
			-9223372036854775808 to 9223372036854775807

Code	INPUT/OUTPUT

#include<stdio.h>
int main(){
long long int Kuldip,Mugdha;
while(scanf("%lld%lld",&Kuldip,&Mugdha)==2){
printf("Output:%lld\n%lld\n",Kuldip,Mugdha);
}
return 0;
}
	

4. Float

Data Type	Format Specifier	Storage Size	Range
float	%f	4 byte	-2,147,483,648 to 2,147,483,647

Code	INPUT/OUTPUT

#include<stdio.h>
int main(){
float Kuldip,Mugdha;
while(scanf("%f%f",&Kuldip,&Mugdha)==2){
printf("Output:%f\n%f\n",Kuldip,Mugdha);
}
return 0;
}	

5. Double

Data type	Format Specifier	Storage Size	Range
double	%lf	8 byte	1.7E-308 to 1.7E+308

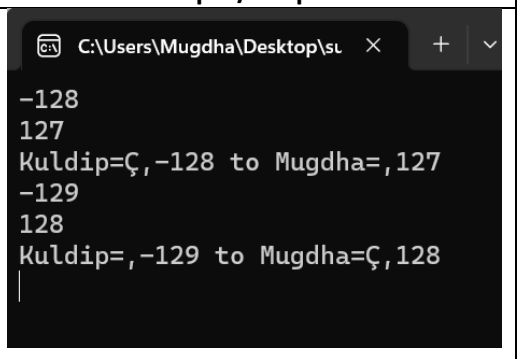
Code	Input/Output

#include <stdio.h>
 	
int main()
{
double Kuldip,Mugdha;
while(scanf("%lf%lf", &Kuldip, &Mugdha) == 2){
printf("%lf\n %lf\n", Sabbir, Ahamad);
}
return 0;
}	

6. Char

Data type	Format Specifier	Storage Size	Range
char	%c	1 byte	-128 to 127
			-128 to 127

Code	Input/Output

#include <stdio.h>
int main() {
int Kuldip,Mugdha;
while(scanf("%d%d",&Kuldip,&Mugdha)==2){
printf("Kuldip=%c,%d to Mugdha=%c,%d\n",Kuldip,Kuldip,Mugdha,Mugdha);
}
return 0;
}
	

7. Long Double

Data type	Format Specifier	Storage Size	Range
long double	%Lf	16 byte	3.4E-4932 to 3.4E+4932

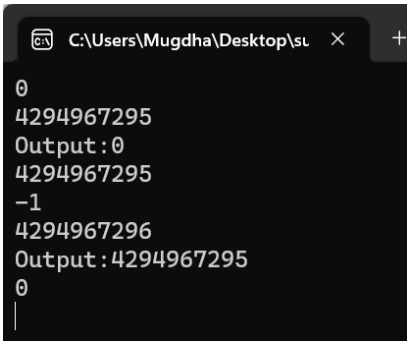
Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  long double Kuldip,Mugdha;`
`  while(scanf("%Lf%Lf", &Kuldip, &Mugdha) == 2){`
`  printf("%Lf\n%Lf\n", Kuldip,Mugdha);`
`  }`
`  return 0;`
`}`	

8. Unsigned int

Data type	Format Specifier	Storage Size	Range
unsigned int	%u	4 byte	0 to 4294967295
			0 to 4294967295

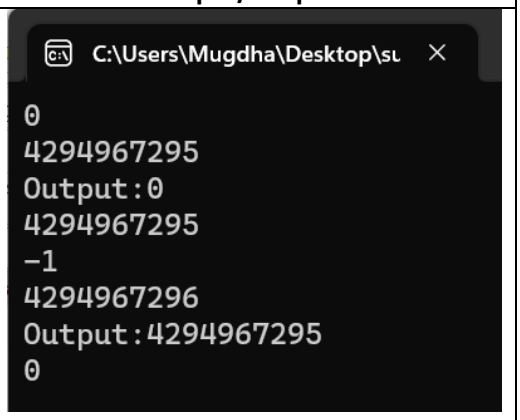
Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  unsigned int Kuldip,Mugdha;`
`  while(scanf("%u%u", &Kuldip, &Mugdha) == 2){`
 	
`printf("Output:%u\n%u\n",Kuldip, Mugdha);`
`  }`
`  return 0;`
`}`
	

9. Unsigned long int

Data type	Format Specifier	Storage Size	Range
unsigned long int	%lu	4 byte	0 to 4294967295
			0 to 4294967295

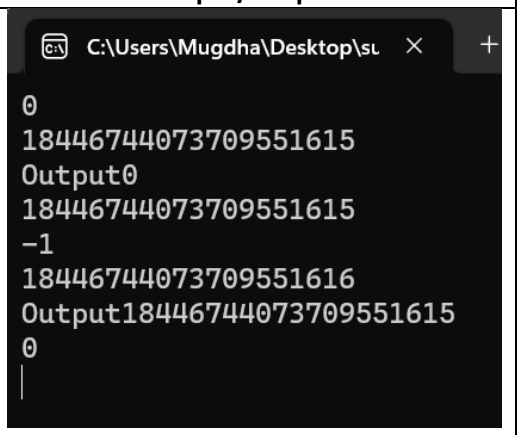
Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  unsigned long int Kuldip,Mugdha;`
`  while(scanf("%lu%lu", &Kuldip, &Mugdha) == 2){`
 	
`printf("Output:%lu\n%lu\n", Kuldip, Mugdha);`
`  }`
`  return 0;`
`}`
	

10. Unsigned long long int

Data type	Format Specifier	Storage Size	Range
unsigned long long int	%llu	8 byte	0 to 18446744073709551615
			0 to 18446744073709551615

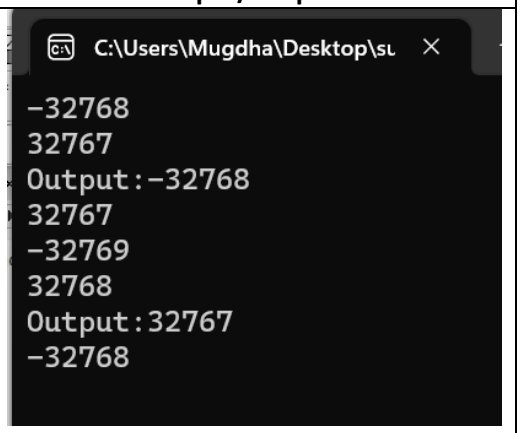
Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  unsigned long long int Kuldip,Mugdha;`
`  while(scanf("%llu%llu", &Kuldip, &Mugdha) == 2){`
 	
`printf("Output%llu\n%llu\n", Kuldip, Mugdha);`
`  }`
`  return 0;`
`}`
	

11. Short int

Data type	Format Specifier	Storage Size	Range
short int	%hd	2 byte	-32768 to 32767
			-32768 to 32767

Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  short int Kuldip,Mugdha;`
`  while(scanf("%hd%hd", &Kuldip, &Mugdha) == 2){`
 	
`printf("Output:%hd\n%hd\n",Kuldip, Mugdha);`
`  }`
`  return 0;`
`}`
	

12. Unsigned short int

Data type	Format Specifier	Storage Size	Range
unsigned short int	%hu	4 byte	0 to 65535
			0 to 65535

Code	Input/Output

`#include <stdio.h>`
 	
`int main()`
`{`
`  unsigned short int Kuldip,Mugdha;`
`  while(scanf("%hu%hu", &Kuldip, &Mugdha) == 2){`
 	
`printf("Output%hu\n%hu\n",Kuldip, Mugdha);`
`  }`
`  return 0;`
`}`