

**Mawlana Bhashani Science and Technology University**

**Department of Information and Communication Technology**

**Assignment: 04**

**Assignment Name:** Library Functions of <stdlib.h>

**Device info:**

System type: 64-bit operating system

Window Edition: Windows 11 Home Single Language

Code Blocks Version: Code::Blocks 20.03

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| **Submitted By** | **Submitted To** |
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| 1st Year 2nd Semester  Session: 2021-2022 | DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY  **MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY** |
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Date: 19-08-2023

**1.atof():**

* Convert character string to float.

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| Code | Input/Output |
| #include <stdio.h>  #include <stdlib.h>  int main()  {  char Mugdha[30];  double decimalMugdha;  printf("Enter any Mugdha: ");  fgets(Mugdha, 30, stdin);  decimalMugdha = atof(Mugdha);  printf("Converted floating point Mugdha = %lf\n", decimalMugdha);  return 0;  } |  |

**2.atoi():**

* Convert a string to an integer.

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| Code | Input/Output |
| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  int main()  {  int val;  char Mugdha[20] = "12345";  val = atoi(Mugdha);  printf("String value = %s\n", Mugdha);  printf("Integer value = %d\n", val);  } |  |

**3.atol():**

* Convert a string to a long integer.

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| Code | Input/Output |
| #include <stdio.h>  #include <stdlib.h>  #include <string.h>  int main () {  long val;  char Mugdha[20];  strcpy(Mugdha, "98993489");  val = atol(Mugdha);  printf("Mugdhaing value = %s, Long value = %ld\n", Mugdha, val);  return(0);  } |  |

**4.strtol():**

* Convert a string to a long integer.

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| Code | Input/Output |
| #include <stdio.h>  #include <stdlib.h>  int main () {  char Mugdha[30] = "2030300 This is test";  char \*ptr;  long ret;  ret = strtol(Mugdha, &ptr, 10);  printf("The number(unsigned long integer) is %ld\n", ret);  printf("Mugdhaing part is |%s|", ptr);  return(0);  } |  |

**5.strtoul():**

* Convert a string to an unsigned long.

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| Code | Input/Output |
| #include <stdio.h>  int main()  {  char Mugdha[256] = "90600 Geeks For Geeks";  char\* end;  long result;  result = strtoul(Mugdha, &end, 36);  printf("%ld",result);  return 0;  } |  |

**6.abs():**

* computes natural logarithm of an argument.

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| **Code** | **Input/Output** |
| #include <stdio.h>  #include <math.h>  int main(){  int Mugdha,res;  scanf("%d",&Mugdha);  res=abs(Mugdha);  printf("%d",res);  return 0;  } |  |