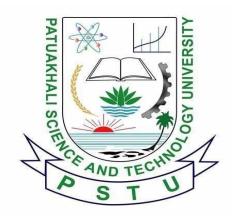
PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY



Course Code: CIT-112

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chapter 5

Managing input and output operators.

5.116 double quote

5.21 6 comma.

5.3) @ both 2 and 3.

5.41 @ All above are fruth.

5.61 to All the above

true or false.

@ False.

True.

6 False.

1 talse.

@ True.

1 true.

@ False.

1 true.

(c) False.

(R) true.

False

Fill in the blanks.	
@ Format	
6 4. 2£	
@ Colypen	
1 format specifier.	
@ 1/. x	done has been
(A) wo	to an all the
1 words	
(J) % e	
10 1.e and %.s.	and To
	, e26 t . B
pebugging exerci.	
5.11 @ Beity. a amount	· 20 1 14.
(5) of city,	
@ " of, ~ 1. d"	
Dun «/of"	
(e) soode, groot.	

- 5.31 @ detchar is use to scan or read all the character from the user and scanf function is only for read one character.
 - 6 4.5 reads a string and on the other hand of a reads or write's a single character.
- (c). If print a floating point number without exponent and dog print a floating point valer either e type or f type depending on.
- @ %s can print one string given by the user and %LI real a string of words.

 (e) %e print a floating point value with in
- exponent form and 1, + read a floating point value ou without exponent.
- 5.41 0 4.d, 4.d, 4.d. 6 4.d, 4.f, 4.x. O 4/d, 4.d, 4.d & 4.d, 4.5, 4.d.

- 1 5/cm 10 2 723
- @ 1234 × 1.23
- (2) 1234 456.00
 - @ 1234" 00123,40"
 - C) 1020 2971584.
- 16 6 1988, 2
 - 2 ,1988.
- (C) 1988 X
 - 2 × 1988.
 - 5.7) @ 1275 £35.75
 - (b) 1275 -235.740000.
 - © 36576 790980.
 - (d) 1275 xxxx -235.74
 - @ CAMBRIDGE.
 - D 1275 10d 104-155.

- 5.81@ there is no value ossign in those wariables year, amount.
 - 10 In is out of double to quote.
 - @ " symble start but not end in the following print f tonetio statement.
 - Wo no volve ossign in amount, code, year variables.
- 5.91 cutput: 1988.
- 5.10] By including single guotdion over multipe character we can use getchar() function.
- 5.11 by including single Quotation over multi character we can use putchar () - function
- 5.12/ by scant function we can read any kind of data like integer, flood, double or character.
- 5.131 9+ indicates what types of data we take of input.
- 5.14] @ value will be right stiffed.
 - o value will be lest justified.

5.15) It is used to show any thing on sudput.

5.16) It indicates what types of data we want to show on output

5.171 For scanning a data in a variable we need to add & sign In scanf fonetion and on the other

and in prints we sont need & Sign to get output in prints.

5.18 @ value will be right justified.

(6) value mill be left sustified.

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Chapter 5

5.1 Given the string "WORDPROCESSING", write a program to read the string from the terminal and display the same in the following formats: (a) WORD PROCESSING (b) WORD PROCESSING (c) W.P

```
#include<stdio.h>
int main()
{
    char x[100]={"WORD"};
    char y[100]={"PROCESSING"};
    printf("(a) %4s %10s\n",x,y);
    printf("(b) %s\n%s\n",x,y);
    printf("(c) %.1s.%.1s.\n",x,y);
}
```

```
(a) WORD PROCESSING
(b) WORD
PROCESSING
(c) W.P.

Process returned 0 (0x0) execution time: 0.010 s
Press any key to continue.
```

5.2 Write a program to read the values of x and y and print the results of the following expressions in one line: (a) (x+y)/(x-y) (b) (x+y)/2 (c) (x+y)(x-y)

```
#include<stdio.h>
int main()
{
    float a,b,c,x,y;
    printf("Enter x and y: ");
    scanf("%f %f",&x,&y);
    a=(x+y)/(x-y);
    b=(x+y)/(x);
    c=(x+y)*(x-y);
    printf("a = %0.2f ",a);
    printf("b = %0.2f ",b);
    printf("c = %0.2f ",c);
}
```

```
Enter x and y: 5

7

a = -6.00 b = 2.40 c = -24.00

Process returned 0 (0x0) execution time : 3.618 s

Press any key to continue.
```

5.3 Write a program to read the following numbers, round them off to the nearest integers and print out the results in integer form: 35.7 50.21 - 23.73 - 46.45

```
#include<stdio.h>
int main()
{
    int a=35.7+.5;
    int b=50.21+.5;
    int c=-(23.73+.5);
    int d=-(46.45+.5);
    printf("a = %d , b = %d , c = %d , d = %d",a,b,c,d);
}
```

```
"E:\codeblock c\assingment \times + \rights

a = 36 , b = 50 , c = -24 , d = -46

Process returned 0 (0x0) execution time : 0.010 s

Press any key to continue.
```

5.4 Write a program which print n number of raw and n number of columb with * symbol

```
Enter n: 5

* * * * *

* * * * *

* * * * *

Process returned 0 (0x0) execution time : 1.902 s

Press any key to continue.
```

5.5 Write an interactive program to demonstrate the process of multiplication. The program should ask the user to enter two two-digit integers and print the product of integers

```
#include<stdio.h>
int main()
  int n,x;
  printf("Enter two digits multiplicand: ");
  scanf("%d",&n);
  printf("Enter two digits multiplicator: ");
  scanf("%d",&x);
  int x1=x\%10;
  int x2=x/10;
  int mul=n*x;
  printf("
                %d\n'',n);
  printf("
               * %d\n",x);
  printf("
              \n");
  printf(" %d* %d is %d\n",x1,n,x1*n);
  printf(" %d* %d is %d\n",x2,n,x2*n*10);
  printf("
              \n");
  printf("
              %d\n",mul);
 □ "E:\codeblock c\assingment ×
Enter two digits multiplicand: 75
Enter two digits multiplicator: 43
              75
            * 43
```

3* 75 is 225 4* 75 is 3000

3225

Process returned 0 (0x0)

Press any key to continue.

execution time : 2.513 s

5.6 Write a program to read three integers from the keyboard using one scanf statement and output them on one line using: (a) three printf statements, (b) only one printf with conversion specifiers, and (c) only one printf without conversion specifiers.

```
#include<stdio.h>
int main()
{
    int a,b,c;
    printf("Enter a,b,c: ");
    scanf("%d %d %d",&a,&b,&c);
    printf("%d ",a);
    printf("%d ",b);
    printf("%d \n",c);
    printf("%d %d %d\n",a,b,c);
    printf("10 20 30\n");
}
```

```
Enter a,b,c: 6 3 2
6 3 2
6 3 2
10 20 30

Process returned 0 (0x0) execution time: 2.886 s
Press any key to continue.
```

5.7 Write a program that prints the value 10.45678 in exponential format with the following specifications: (a) correct to two decimal places; (b) correct to four decimal places; and (c) correct to eight decimal places.

```
#include<stdio.h>
int main()
{
    double x;
    x=exp(10.45678);
    printf("%0.2lf\n",x);
    printf("%0.4lf\n",x);
    printf("%0.8lf\n",x);
```

}

```
"E:\codeblock c\assingment × + \ \ 34779.38
34779.3813
34779.38134205

Process returned 0 (0x0) execution time : 0.011 s
Press any key to continue.
```

5.8 Write a program to print the value 345.6789 in fixed-point format with the following specifications: (a) correct to two decimal places; (b) correct to five decimal places; and (c) correct to zero decimal places.

```
#include<stdio.h>
int main()
{
    double x=345.6789;
    printf("%0.2f\n",x);
    printf("%0.5f\n",x);
    printf("%0.0f\n",x);
```

}

```
"E:\codeblock c\assingment \time + \rightarrow

345.68
345.67890
346

Process returned 0 (0x0) execution time : 0.011 s

Press any key to continue.
```

5.9 Write a program to read the name ANIL KUMAR GUPTA in three parts using the scanf statement and to display the same in the following format using the printf statement. 5.3, 5.4 H] (a) ANIL K. GUPTA (b) A.K. GUPTA (c) GUPTA A.K.

```
#include<stdio.h>
int main()
{
    char x[100]={"ANIL"},y[100]={"KUMAR"},z[100]={"GUPTA"};
    printf("%s %.1s. %s\n",x,y,z);
    printf("%0.1s.%0.1s. %s\n",x,y,z);
    printf("%s %0.1s.%0.1s. ",z,x,y);
```

}

```
M "E:\codeblock c\assingment × + \

ANIL K. GUPTA
A.K. GUPTA
GUPTA A.K.
Process returned 0 (0x0) execution time : 0.011 s
Press any key to continue.
```

5.10 Write a program with name code and price information:

```
#include<stdio.h>
int main()
{
    printf("Name code Price\n");
    printf("fan 67831 1234.50\n");
    printf("Motor 450 5786.70\n");
}
```

```
Name code Price fan 67831 1234.50 Motor 450 5786.70

Process returned 0 (0x0) execution time : 0.012 s Press any key to continue.
```

5.11 Problem

5.12 Problem

5.13 Write a C program to input a currency value in Dollars and display its equivalent Euro and INR amounts. You may use current exchange rate for conversion purpose.

```
#include<stdio.h>
int main()
{
    float euro,inr,dollars;
    printf("Enter your money in dollar: ");
    scanf("%f",&dollars);
    euro=dollars*0.92;
    inr=dollars*82.18;
    printf("The euro value of the money is: %0.2f\n",euro);
    printf("The INR value of the money is: %0.2f\n",inr);
}
```

```
Enter your money in dollar: 75
The euro value of the money is: 69.00
The INR value of the money is: 6163.50
Process returned 0 (0x0) execution time: 2.017 s
Press any key to continue.
```

5.14 Write a C program to display a pattern where 1^{st} line will be 1 2 3 n than second line will be 1 2 3 (n-1) and go on and at last the line will be 1:

```
int main()
  int n,r,c;
  printf("Enter row number: ");
  scanf("%d",&n);
  for(r=n;r>=1;r--)
    for(c=1;c=n-r;c++)
         printf(" ");
 }
       for(c=1;c<=r;c++)
         printf("%d ",c);
    printf("\n");
  }
}
 "E:\codeblock c\assingment X
Enter row number: 7
1 2 3 4 5 6 7
   1 2 3 4 5 6
     1 2 3 4 5
       1 2 3 4
          1 2 3
```

#include<stdio.h>

Process returned 0 (0x0)

Press any key to continue.

execution time : 1.443 s

5.15 Write a C program to input an investment amount and compute its fixed deposit cumulative return after 10 years at a rate of interest of 8.75%.

```
#include<stdio.h>
int main()
{
    float r=(8.75/100),p,n=10,i,c;
    printf("Enter your Investment amount: ");
    scanf("%f",&p);
    i=p*n*r;
    //c=fixed deposit cumulative;
    c=i+p;
    printf("fixed deposit cumulative is: %0.2f",c);
}
```

```
Enter your Investment amount: 6500
fixed deposit cumulative is: 12187.50
Process returned 0 (0x0) execution time: 4.548 s
Press any key to continue.
```