**Assignment - 2 A Job Ready Bootcamp in C++, DSA and IOT MySirG**

**Operators in C Language**

1. Write a program to print unit digit of a given number.

Sol – 1.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,n;

printf("Enter a number : ");

scanf("%d",&n);

a=n%10;

printf("Unit digit of %d is %d",n,a);

getch();

return 0;

}

1. Write a program to print a given number without its last digit.

Sol – 2.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,n;

printf("Enter a number : ");

scanf("%d",&n);

a=n/10;

printf("%d without it's last digit : %d",n,a);

getch();

return 0;

}

1. Write a program to swap values of two int variables.

Sol – 3.

#include<stdio.h>

#include<conio.h>

int main()

{

int a=5,b=8,c;

c=a;

a=b;

b=c;

printf("After Swap A is %d and B is %d",a,b);

getch();

return 0;

}

OR

#include<stdio.h>

#include<conio.h>

int main()

{

int a=5,b=8;

printf("After Swap A is %d and B is %d",b,a);

getch();

return 0;

}

1. Write a program to swap values of two int variables without using a third variable.

Sol – 4.

#include<stdio.h>

#include<conio.h>

int main()

{

int a=5,b=8;

a=a+b;

b=a-b;

a=a-b;

printf("After Swap A is %d and B is %d",a,b);

getch();

return 0;

}

OR

#include<stdio.h>

#include<conio.h>

int main()

{

int a=5,b=8;

printf("After Swap A is %d and B is %d",b,a);

getch();

return 0;

}

1. Write a program to input a three-digit number and display the sum of the digits.

Sol – 5.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,b,c,n;

printf("Enter a 3 digit number : ");

scanf("%d",&n);

a=n/100;

b=n%100/10;

c=n%10;

printf("Sum of digits is %d",a+b+c);

getch();

return 0;

}

OR

#include<stdio.h>

#include<conio.h>

int main()

{

int a,b,c,n;

printf("Enter a 3 digit number : ");

scanf("%d",&n);

a=n%10;

n/=10;

b=n%10;

n/=10;

c=n%10;

printf("Sum of digits is %d",a+b+c);

getch();

return 0;

}

1. Write a program which takes a character as an input and displays its ASCII code.

Ans – 6.

#include<stdio.h>

#include<conio.h>

int main()

{

char a;

printf("Enter a character : ");

scanf("%c",&a);

printf("ASCII code of \"%c\" is %d",a,a);

getch();

return 0;

}

1. Write a program to find the position of first 1 in LSB.

Sol – 7.

#include<stdio.h>

#include<conio.h>

int main()

{

int n,i;

printf("Enter a number : ");

scanf("%d",&n);

for(i=1;n;i++)

{

if(n&1)

{

printf("Position is %d",i);

break;

}

n=n>>1;

}

getch();

return 0;

}

8. Write a program to check whether the given number is even or odd using a bitwise

operator.

Sol – 8.

#include<stdio.h>

#include<conio.h>

int main()

{

int n;

printf("Enter a number : ");

scanf("%d",&n);

if(n&1)

printf("%d is Odd",n);

else

printf("%d is Even",n);

getch();

return 0;

}

1. Write a program to print size of an int, a float, a char and a double type variable.

Sol – 9.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,b,c,d;

a=sizeof(int);

b=sizeof(float);

c=sizeof(char);

d=sizeof(double);

printf("Size of int is %dbytes\nSize of float is %dbytes\nSize of char is %dbytes\nSize of double is %dbytes",a,b,c,d);

getch();

return 0;

}

10. Write a program to make the last digit of a number stored in a variable as zero.

(Example - if x=2345 then make it x=2340)

Ans – 10.

#include<stdio.h>

#include<conio.h>

int main()

{

int a;

printf("Enter a number : ");

scanf("%d",&a);

a/=10;

a\*=10;

printf("%d",a);

getch();

return 0;

}

11. Write a program to input a number from the user and also input a digit. Append a

digit in the number and print the resulting number. (Example - number=234 and

digit=9 then the resulting number is 2349)

Sol – 11.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,b,c;

printf("Enter a number and a digit : ");

scanf("%d%d",&a,&b);

c=a\*10;

printf("On appending %d in %d we get %d",a,b,c+b);

getch();

return 0;

}

12. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and

convert it into USD.

Sol – 12.

#include<stdio.h>

#include<conio.h>

int main()

{

int a;

float b;

printf("Enter amount in INR : ");

scanf("%d",&a);

b=a/76.23;

printf("%d rs equals to %f $",a,b);

getch();

return 0;

}

13. Write a program to take a three-digit number from the user and rotate its digits by

one position towards the right.

Sol – 13.

#include<stdio.h>

#include<conio.h>

int main()

{

int a,b,c,d;

printf("Enter a 3 digit number : ");

scanf("%d",&a);

b=a%10;

c=a/100;

a/=10;

d=a%10;

printf("On rotating the number we get %d%d%d",b,c,d);

getch();

return 0;

}