

A Job Ready Bootcamp in C++, DSA and IOT

Assignment-2

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

Ans:-

```
#include<stdio.h>

#include<conio.h>

int main()
{
    int x;

    printf("Enter a Number :-");

    scanf("%d",&x);

    printf("Unit digit of %d is =%d ",x,x%10);

    getch();
}
```

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

Ans:-

```
#include<stdio.h>

#include<conio.h>

int main()
{
    int x;

    printf("Enter a Number :-");

    scanf("%d",&x);

    printf("%d without last digit is =%d ",x,x/10);

    getch();
}
```

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

Ans:-

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int a,b,c;
    printf("Enter Two Number :-");
    scanf("%d%d",&a,&b);
    c=a;
    a=b;
    b=c;
    printf("a=%d ,b=%d",a,b);
    getch();
}
```

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

Ans:-

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int a,b;
    printf("Enter Two Number :-");
    scanf("%d%d",&a,&b);
    a=(a+b)-(b=a);
    printf("a=%d ,b=%d",a,b);
    getch();
}
```

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

Ans:-

```

#include<stdio.h>
#include<conio.h>
int main()
{
    int a,b,sum=0;
    printf("Enter a Number :-");
    scanf("%d",&a);
    while(a)
    {
        b=a%10;
        sum=sum+b;
        a/=10;
    }
    printf("Sum of digit is =%d",sum);
    getch();
}

```

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

Ans:-

```

#include<stdio.h>
#include<conio.h>
int main()
{
    char c;
    printf("Enter any character :-");
    scanf("%c",&c);
    printf("ASCII Code of %c is =%d",c,c);
    getch();
}

```

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

Ans:-

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int x,count=1;
    printf("Enter a Number :-");
    scanf("%d",&x);
    while(x)
    {
        if(x%2==1)
        {
            break;
        }
        x/=2;
        count++;
    }
    printf("Position of first 1 in LSB is =%d",count);
}
```

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

Ans:-

```
#include <stdio.h>
#include <conio.h>
int main()
{
    int c,a;
    printf("Enter a number :-");
    scanf("%d",&c);
```

```

a=c^1;
if(a==c+1)
    printf("Even Number");
else
    printf("Odd number");
getch();
}

```

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

Ans:-

```

#include<stdio.h>
#include<conio.h>
int main()
{
    int a;
    char c;
    float b;
    double d;
    printf("Size of a int variable=%d\nSize of an char variable is %d\n",sizeof(a),sizeof(c));
    printf("Size of a float is %d\nSize of a double variable is %d",sizeof(b),sizeof(d));
    getch();
}

```

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:-

```

#include<stdio.h>
#include<conio.h>
int main()
{
    int x;

```

```

printf("Enter a number:-");

scanf("%d",&x);

x=x-(x%10);

printf("%d",x);

getch();

}

```

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)

Ans:-

```

#include<stdio.h>

#include<conio.h>

int main()

{

    int x,y;

    printf("Enter a number And enter a digit:-");

    scanf("%d%d",&x,&y);

    printf("The resulting number is %d",x*10+y);

    getch();

}

```

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

Ans:-

```

#include<stdio.h>

#include<conio.h>

int main()

{

    float x;

    printf("Enter the amount in INR:-");

```

```
scanf("%f",&x);  
printf("%.2f INR is = %.2f USD",x,x/76.23);  
getch();  
}
```

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

Ans:-

```
#include<stdio.h>  
#include<conio.h>  
int main()  
{  
    int x,y;  
    printf("Enter a three-digit number :-");  
    scanf("%d",&x);  
    y=(x/10)+100*(x%10);  
    printf("After rotate the number %d by one position toward the right =%d",x,y);  
    getch();  
}
```