

Assignment - 6 C Language LIVE Community Classes MySirG

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

Answer-

Code:

```
#include<stdio.h>
main()
{
    int a;
    float b;
    char c;
    double d;
    printf(" size of int: %lu Bytes",sizeof(int));
    printf("\n size of float: %lu Bytes",sizeof(float));
    printf("\n size of char: %lu Bytes",sizeof(char));
    printf("\n size of double: %lu Bytes",sizeof(double));
    getch();
}
```

2. Write a program to find last digit of a given number

Answer:

Code:

```
#include<stdio.h>
main()
{
    int a,b;
    printf(" Enter The Number = ");
    scanf("%d",&a);
    b=a%10;
    printf(" Last Digit of Entered number = %d",b);
    getch();
}
```

3. Write a program to find first digit of a given three digit number

Answer:

Code :

```
#include<stdio.h>
main()
{
    int a,b;
    printf(" Enter any Three Digit number= ");
    scanf("%d",&a);
    b=a/100;
    printf(" The First Digit of entered number = %d",b);
}
```

```
    getch();  
}
```

4. Write a program to find middle digit of a given three digit number

Answer-

Code:

```
#include<stdio.h>  
main()  
{  
    int a,b,c;  
    printf(" Enter Three Digit number = ");  
    scanf("%d",&a);  
    b=a/10;  
    c=b%10;  
    printf(" Middle Digit = %d",c);  
    getch();  
}
```

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

Answer-

Code:

```
#include<stdio.h>  
main()  
{  
    int a,b,c;  
    printf(" Enter Value of a = ");  
    scanf("%d",&a);  
    printf(" Enter Value of b = ");  
    scanf("%d",&b);  
    c=a;  
    a=b;  
    b=c;  
    printf("\n The Value of a after swap = %d",a);  
    printf("\n The Value of b after swap = %d",b);  
    getch();  
}
```

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

Answer:

Code:

```
main()  
{  
    int a,b;  
    printf(" Enter value of a = ");
```

```

scanf("%d",&a);
printf(" Enter value of b = ");
scanf("%d",&b);
a=a+b;
b=a-b;
a=a-b;
printf("\n value of 'a' after Swap = %d",a);
printf("\n value of 'b' after Swap = %d",b);
getch();
}

```

7. 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)

Answer:

Code:

```

#include <stdio.h>
main()
{
    int a,b,c;
    printf("Enter the Number = ");
    scanf("%d",&a);
    b=a/10;
    c=b*10;
    printf("Number is converted from %d to %d ",a,c);
    getch();
}

```

8. 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)

Answer:

```

#include<stdio.h>
main()
{
    int a,b,c;
    printf(" Enter a Number = ");
    scanf("%d",&a);
    printf(" Enter a Digit = ");
    scanf("%d",&b);
    c=a*10+b;
    printf("Resulting Number = %d",c);
    getch();
}

```

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

Answer:

Code:

```
#include<stdio.h>
main()
{
    float a,b=76.23; // a= INR, b= USD.
    printf("Enter INR amount = ");
    scanf("%g",&a);
    b=b*a;
    printf("INR converted to USD = %g",b);
    getch();
}
```

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

Answer:

Code:

```
#include<stdio.h>
main()
{
    int a,b,c;
    printf("Enter the Three digit Number = ");
    scanf("%d",&a);
    b=a%10;
    c=a/10;
    printf("After one rotation final number = %d%d",b,c);
    getch();
}
```