

## ASSIGNMENT 6

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

**Ans-** #include <stdio.h>

```
int main() {  
    int a;  
    float b;  
    char c;  
    double d;  
    printf("Size of int: %ld bytes\n", sizeof(a));  
    printf("Size of float: %ld bytes\n", sizeof(b));  
    printf("Size of char: %ld bytes\n", sizeof(c));  
    printf("Size of double: %ld bytes\n", sizeof(d)); } }
```

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

**Ans-** #include <stdio.h>

```
int main() {  
    int num, ldgt;  
    printf("Enter any Number");  
    scanf("%d", &num);  
    ldgt = num%10;  
    printf("The Last Digit is %d", ldgt); }
```

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

**Ans-** #include <stdio.h>

```
int main() {  
    int num;  
    printf("Enter a number:");  
    scanf("%d",&num);  
    while (num>= 10)  
    {  
        num= num/10;  
    }  
    printf("The First Digit is %d", num); }
```

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

**Ans-** #include <stdio.h>

```
int main() {
```

```
int num;

printf("Enter a number:");

scanf("%d",&num);

num= (num%10)/10;

printf("The Middle Digit is %d",num); }
```

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

**Ans-** #include<stdio.h>

```
int main() {

int n1, n2, n3;

printf("Enter two integer numbers");

scanf("%d%d",&n1,&n2);

n1=n3;

n2=n1;

n3=n2;

printf("%d%d",n1,n2); }
```

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

**Ans-** #include<stdio.h>

```
int main() {

int n1,n2;;

printf("Enter two integer numbers");

scanf("%d%d",&n1,&n2);

n1=n1+n2;

n2=n1-n2;

n1=n1-n2;

printf("%d%d",n1,n2); }
```

**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)**

**Ans-** #include <stdio.h>

```
int main() {

int num, ldgt;;

printf("Enter any Number");
```

```
scanf("%d", &num);  
ldgt = num%10;  
num=num-ldgt;  
printf("%d",num); }
```

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)

**Ans-** include<stdio.h>

```
int main() {  
    int n1, n2;  
    char num,dgt;  
    printf("Enter the number");  
    scanf(num,"%d",&n1);  
    printf("Enter the Digit");  
    scanf(dgt,"%d",&n2);  
    strcat(num,dgt);  
    printf("%s",num); }
```

9. 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>

```
int main() {  
    double n1, n2;  
    printf("Enter the amount in Rupees");  
    scanf("%f",&n1);  
    n2=n1*76.23;  
    printf("%f INR equals to %f USD,n1,n2); }
```

10. 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>

```
int main() {  
    int arr[] = {1, 2, 3, 4, 5}, i;  
    int n = sizeof(arr)/sizeof(arr[0]);
```

```
printf("Given array is\n");  
  
for (i = 0; i < n; i++)  
    printf("%d ", arr[i]);  
  
rotate(arr, n);  
  
printf("\nRotated array is\n");  
  
for (i = 0; i < n; i++)  
    printf("%d ", arr[i]); }
```