**ASSIGNMENT 6**

***Q1. Write a program to print size of an int, a float, a char and a double type variable.***

*#include<stdio.h>*

*int main()*

*{*

*int a,b,c,d;*

*a=sizeof(int);*

*b=sizeof(float);*

*c=sizeof(char);*

*d=sizeof(double);*

*printf("%d %d %d %d",a,b,c,d);*

*return 0;*

*}*

***Q2. Write a program to find last digit of a given number.***

*#include<stdio.h>*

*int main()*

*{*

*int num,last\_digit;*

*scanf("%d",&num);*

*last\_digit=num%10;*

*printf("Last digit of a num: %d",last\_digit);*

*return 0;*

*}*

***Q3. Write a program to find first digit of a given three-digit number.***

*#include<stdio.h>*

*int main()*

*{*

*int num,f\_digit;*

*printf("Enter a three-digit number:");*

*scanf("%d",&num);*

*f\_digit=num/100;*

*printf("First digit of a num: %d",f\_digit);*

*return 0;*

*}*

***Q4. Write a program to find middle digit of a given three digit number****.*

*#include<stdio.h>*

*int main()*

*{*

*int num,m\_digit;*

*printf("Enter a three-digit number:");*

*scanf("%d",&num);*

*m\_digit=(num/10)%10;*

*printf("Middle digit of a num: %d",m\_digit);*

*return 0;*

*}*

***Q5. Write a program to swap values of two int variables.***

*#include<stdio.h>*

*int main()*

*{*

*int a,b,temp;*

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

*temp=a;*

*a=b;*

*b=temp;*

*printf("a=%d b=%d",a,b);*

*return 0;*

*}*

***Q6. Write a program to swap values of two int variables without using third variable.***

*#include<stdio.h>*

*int main()*

*{*

*int a,b;*

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

*a=a+b;*

*b=a-b;*

*a=a-b;*

*printf("a=%d b=%d",a,b);*

*return 0;*

*}*

***Q7. 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)***

*#include<stdio.h>*

*int main()*

*{*

*int num,new\_num;*

*scanf("%d",&num);*

*new\_num=(num/10)\*10;*

*printf("New number=%d",new\_num);*

*return 0;*

*}*

***Q8. 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)***

*#include<stdio.h>*

*int main()*

*{*

*int num,digit,new\_num;*

*scanf("%d%d",&num,&digit);*

*new\_num=(num\*10)+digit;*

*printf("New number=%d",new\_num);*

*return 0;*

*}*

***Q9. Assume price of 1 USD is INR 76.23. Write a program to take the amount in INR and convert it into USD.***

*#include<stdio.h>*

*int main()*

*{*

*float inr,usd;*

*scanf("%f",&inr);*

*usd=inr/76.23;*

*printf("USD=%f",usd);*

*return 0;*

*}*

***Q10. Write a program to take a three digit number from the user and rotate its digits by one position towards the right.***

*#include<stdio.h>*

*int main()*

*{*

*int num,new\_num;*

*printf("Enter a three-digit number:");*

*scanf("%d",&num);*

*new\_num=num%10;*

*num=num/10;*

*new\_num=new\_num\*100+num;*

*printf("New number=%d",new\_num);*

*return 0;*

*}*