**ASSIGNMENT 2 SOLUTION**

**Ans 1.**

#include <stdio.h>

int main() {

// Write C code here

int num,num2,i;

printf("\nenter a number");

scanf("%d" , &num);

num2=num%10; //storing unit digit in num2

printf("\n unit digit of %d is: %d",num,num2);

return 0;

}

**Ans 2.**

#include <stdio.h>

int main() {

// Write C code here

int num, digit;

// Asking for input

printf("Enter the digit: ");

scanf("%d", &num);

digit = num / 10;

// Displaying output

printf("Last Digit of %d is: %d", num, digit);

return 0;

}

**Ans 3.**

#include <stdio.h>

int main() {

// Write C code here

int a, b, c;

printf("Enter First Number :");

scanf("%d",&a);

printf("\nEnter Second Number :");

scanf("%d",&b);

printf("Before swap a=%d b=%d",a,b);

c=a;

a=b;

b=c;

printf("\nAfter swap a=%d b=%d",a,b);

return 0;

}

**Ans 4.**

#include <stdio.h>

int main() {

// Write C code here

int a, b;

printf("Enter First Number :");

scanf("%d",&a);

printf("\nEnter Second Number :");

scanf("%d",&b);

printf("Before swap a=%d b=%d",a,b);

a=a+b;//a=30 (10+20)

b=a-b;//b=10 (30-20)

a=a-b;//a=20 (30-10)

printf("\nAfter swap a=%d b=%d",a,b);

return 0;

}

**Ans 5.**

#include <stdio.h>

int main() {

// Write C code here

int n,sum=0,m;

printf("Enter a number:");

scanf("%d",&n);

while(n>0)

{

m=n%10;

sum=sum+m;

n=n/10;

}

printf("Sum is=%d",sum);

return 0;

}

**Ans 6.**

#include <stdio.h>

int main() {

// Write C code here

char c;

printf("Enter a character: ");

scanf("%c", &c);

// %d displays the integer value of a character

// %c displays the actual character

printf("ASCII value of %c = %d", c, c);

return 0;

}

**Ans 7.**

#include <math.h>

#include <stdio.h>

unsigned int getFirstSetBitPos(int n)

{

return log2(n & -n) + 1;

}

// Driver code

int main()

{

int n = 12;

printf("%u", getFirstSetBitPos(n));

getchar();

return 0;

}

**Ans 8.**

#include <stdio.h>

int main() {

// Write C code here

int n;

printf("Enter an integer\n");

scanf("%d",&n);

if ( n & 1 == 1 )

printf("Odd\n");

else

printf("Even\n");

return 0;

}

**Ans 9.**

#include <stdio.h>

int main() {

// Write C code here

int a;

float b;

char c;

double d;

// Size of Variables

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", sizeof(d));

return 0;

}

**Ans 10.**

#include <stdio.h>

int main() {

// Write C code here

int num, digit,final;

// Asking for input

printf("Enter the digit: ");

scanf("%d", &num);

digit = num / 10;

final = digit\*10;

// Displaying output

printf("Final Value of %d is: %d", num, final);

return 0;

}

**Ans 11.**

#include <stdio.h>

int main() {

// Write C code here

int num, digit,final;

// Asking for input

printf("Enter the digit: ");

scanf("%d", &num);

printf("\nEnter the last digit: ");

scanf("%d", &digit);

num = num\*10;

final = num + digit;

// Displaying output

printf("Final Value is: %d", final);

return 0;

}

**Ans 12.**

#include <stdio.h>

int main() {

// Write C code here

int rupees;

float dollar;

printf("Enter the INR:");

scanf("%d",&rupees);

dollar=rupees\*76.23;

printf("INR of %d is %f dollar",rupees,dollar);

return 0;

}

**Ans 13.**

#include <stdio.h>

int main() {

int num;

printf("Enter the Number: ");

scanf("%d", &num);

int ans=0;

int i=0;

while(num>0)

{

if(i==0)

ans=ans+(num%10)\*100;

else if(i==1)

ans=ans+(num%10);

else

ans=ans+(num%10)\*10;

num=num/10;

i++;

}

printf("%d",ans);

return 0;

}