DAY-3:

13. write a c program to sum of digit using while.

Ans: Input:

#include<stdio.h>

int main()

{

int n,r,s=0;

printf("enter a no:");

scanf("%d",&n);

while(n!=0)

{

r=n%10;

s=s+r;

n=n/10;

}

printf("the sum of digits:%d",s);

return 0;

}

Output:

enter a no:123

the sum of digits:6

14. Write a c program to reverse no using while.

Ans : Input:

#include<stdio.h>

int main()

{

int n,r,s=0;

printf("enter a no:");

scanf("%d",&n);

while(n>0)

{

r=n%10;

s=s\*10+r;

n=n/10;

}

printf("Reverse no:%d",s);

return 0;

}

Output:

enter a no:153

Reverse no:351

15. Write a c program to find palindrome no using while.

Ans : Input:

#include<stdio.h>

int main()

{

int n,r,p,s=0;

printf("enter a no:");

scanf("%d",&n);

p=n;

while(n>0)

{

r=n%10;

s=s\*10+r;

n=n/10;

}

printf("%d \n",s);

if(p==s)

{

printf("palindrome no");

}

else

{

printf("not palindrome no");

}

return 0;

}

Output:

enter a no:121

121

palindrome no

16. Write a c program to find Armstrong no using while.

Ans : Input:

#include<stdio.h>

int main()

{

int n,r,p,s=0;

printf("enter a no:");

scanf("%d",&n);

p=n;

while(n>0)

{

r=n%10;

s=s+(r\*r\*r);

n=n/10;

}

printf("%d \n",s);

if(p==s)

{

printf("armstrong no");

}

else

{

printf("not armstrong no");

}

return 0;

}

Output:

enter a no:153

153

armstrong no

17. Write a c program to create Fibonacci series using for loop.

Ans : Input:

#include<stdio.h>

int main()

{

int a=0,b=1,i,n,S;

printf(“Enter the no of terms:”);

scanf(“%d”,&n);

printf(“Fibonacci series :”);

for(i=1;i<=n;i++)

{

printf(“a”);

S=a+b;

a=b;

b=S;

}

return 0;

}

Output:

Enter the no of terms: 5

Fibonacci series: 01123

18. Write a c program to find factorial of a number using for loop.

Ans : Input:

#include<stdio.h>

int main()

{

int i,f=1,n;

printf("enter a no:");

scanf("%d",&n);

for(i=1;i<=n;i++)

{

f=f\*i;

}

printf("factorial of %d is: %d",n,f);

return 0;

}

Output:

enter a no:5

factorial of 5 is: 120

19. write a c program to find prime no using for loop.

Ans : Input:

#include <stdio.h>

Int main() {

Int num, I, is\_prime = 1;

Printf(“Enter a number: “);

Scanf(“%d”, &num);

If (num < 2) {

Is\_prime = 0;

} else {

For (I = 2; I < num; i++) {

If (num % I == 0) {

Is\_prime = 0;

}

}

}

If (is\_prime) {

Printf(“%d is a prime number.\n”, num);

} else {

Printf(“%d is not a prime number.\n”, num);

}

Return 0;

}

Output :

Enter a number: 10

10 is not a prime number

20. Write a c program to create this pattern

1

2 3

4 5 6

7 8 9 10

Ans : Input :

#include<stdio.h>

Int main()

{

Int i ,j ,num=1;

For(i = 1 ;i <= 4 ; i++)

{

For(j = 1 ;j <= 4 ; j++)

{

Printf(“ “);

}

For(j = 1 ;j <= i ; j++)

{

Printf(“%d”,num);

Num++;

}

Printf(“\n”);

} return 0;

}