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Assignment 01 :-

Write a program that converts a lowercase to uppercase and an uppercase character to lowercase If the I/P character is not a letter Print "Invaid I/P"

```
#include<Stdio.h>
Void main()
{
  Char C;
  Printf("Enter a character:");
  Scanf("%c", &C);
  if (C>='a' && C<='z')
  {
    C-=32;
  }
  else if (C>='A' && C<='Z')
  {
    C+=32;
  }
  else
  {
    Printf("Invaild input");
    return 0;
  }
  printf("Converted character: %c", C);
  return 0;
}
```

O/P:

Enter a character: a
Converted character: A
Enter a character: b
Converted character: B
Enter a character: 1
Invaid I/P

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Assignment-02:-

You have to Print the character 'ch' in the first line & then Prin 's' in the next line In the last line Print Sentence.

```
#include <Stadio.h>.
int main ( ).
{
  Char ch;
  Print ("Enter a character:");
  Scanf ("%.c", (&ch);
  printf ("%.c\n", 's');
  print ("Sen \n");
  return 0;
}
```

O/P:

Enter a character: x
s.
Sen.

Assignment-03:-

Give a +ve integer dunoting n, do the following of 1≤n≤9, print the lowercase English word Corresponding to the number.
If n>9, print greater than 9.

```
# include <Stadio.h>.
int main()
{
  int n;
  Paint f (" Enter a +ve integer :");
```

```
Scanf ("%d", &n);
if (n>=1 && n<=9).
{
 Switch (n)
 {
 case 1: Printf ("one\n");
         break;
 case 2; printf ("two\n");
         break;
case 3; Printf ("thru\n");
         break;
case 4; printf ("four\n");
         break;
case 5; printf ("five\n");
         break;
case 6; printf ("six\n");
         break;
case 7: printf ("seven\n");
         break;
case 8: printf ("eight\n");
         break;
case 9: printf ("nine\n");
         break;
 }
}
 else {
 Printf ("Greater than 9\n");
 }
 return 0;
}
```

op :-
Enter a positive integer: 5
five
Enter a positive integer: 20
Greater than 9.

Assignment 58 -.

Condition :- $18 \leq age \leq 60$
$0 \leq monthly\_income <= 50000$.

```
#include <stdio.h>
int main()
{
  int age;
  float monthy_income;
printf("Enter age (18-60):");
Scanf ("%d", &age);
printf("Enter monthly_income (0-50000):");
Scanf ("%f", &monthly_income);
if (age<18 || age>60 || monthly_income<0 ||
    monthly_income >50000.00)
{
  printf("Invaild input, please check the.
        age & income range");
}
else if(age>=18 && age<=25 && monthly_
        income>25000)
{
  printf("loan eligible");
}
else if (age>=26 && age<=40 && monthy_
        income>=10000).
{
```

```
printf ("loan eligible");
}
else
{
 printf ("loan not eligible");
}
return 0;
}
```

O/P

Enter age (18-60): 30
Enter monthly income (0-50000): 2000.
loan eligible.

Assignment 06:

Grade Evaluation System.

```
#include <stdio.h>
int main()
{
 int score;
 printf("Enter Score (0-100):");
 scanf("%d", &score);
 if (score<0||score>100)
 {
  printf(" Invaild Score. Please enter b/w
                                0 & 100.");
 }
 else if (score>=90)
 {
  printf ("Grade : A");
 }
 else if (score>=80)
 {
```

```
{
  printf ("Grade: B");
}
else if (score >= 70)
{
  Printf ("Grade: C");
}
else if (score >= 60)
{
  printf ("Grade: D")
}
else
{
  printf ("Grade: F");
}
return 0;
}
```

O/P

Enter score (0-100): 97 Grade: A

Enter score (0-100): 59 Grade: D

Enter score (0-100): 35 Grade: F

* Assignment 07:

For each integer n in interval [a, b].

- if $1 \le n \le 9$ print english representation of in lowercase
- n > 9 even no print even
- n > 9 odd no print odd.

```
#include <stdio.h>
void print_representation(int a, int b)
{
for(int n=a; n<=b; n++).
{
 if (n>=1 && n<=9)
 {
 switch(n)
 {.
  case1 : Printf("one\n");
          break;
  Case2 : Printf("Two\n");
          break;
  Case3 : printf("Three\n");
          break;
  Case4 : printf("four\n");
          break;
  Case5 : printf("five\n");
          break;
  Case6 : Printf("Six\n");
          break;
  Case7 : Printf("Seven\n");
          break;
  'Case8 : Printf("Eight\n");
          break;
  (case9 : Printf("nine\n");
          break;
 }
}
else{
    if (n%2==0)
    {
  printf("even\n");
```

```
else {
    printf ("odd\n");
}}}}
int main()
{
 int a,b;
 printf("Enter lower bound (a):");
 scanf("%d", &a);
 Printf("enter upper bound (b):");
 Scanf ("%d", &b);
 print_representation (a,b);
 return 0;
}
```

O/P:-
Enter lower bound(a): 8 11.
Enter upper bound(b): eight.
nine
even
odd.

Assignment 8:-

print powers of 2 from 2 to 128 in separate lines using a while loop.

```
#include <stdio.h>
Void main()
{
 int i=1;
 while (i<=128)
 {
  printf("%d\n", i*2);
  i*2;
 }
return 0;
}
```

O/P.
2
4
8
16
32
64
128

Assignment : 9

Give 5 digit integer print Sum of its digits (condition → 10000 <= n <= 99999)

```
#include <stdio.h>
Void main()
{
int n;
printf("Enter a 5 digit integer (10000-99999):");
Scanf("%d", &n);
if (n<10000||n>99999)
{
printf("Invaid i/p. Please enter a 5-digit integer")
} return 0;
int Sum=0;
while(n=0)
{
Sum += n%10;
n /=10;
}
printf("Sum of digits : %d\n", sum);
return 0;
}
```

O/P

Enter a 5-digit integer (100000-99999): 10514

Sum of digits : 16.

Enter a 5-digit integer (10000-99999): 12345

Sum of digits : 15

Assignment :- 10

~~The Man~~
Chef wants to write a code. with check if Given number is Prime

```
#include <Stdio.h>
int main()
{
  int num;
  Printf("Enter a number :");
  Scanf ("%d", &num);
  if (num<=1).
  {
   Printf("No\n");
   return 0;
  }
  int i=2;
  int is_Prime=1;
  while (i*i<=num)
  {
    if(num %. i==0)
    {
      is_Prime=0;
       break;
    }
    i++;
  }
  if (is_Prime)
  {
   Printf("Yes\n");
  }
  else
  {Printf("No\n");
  }
   return 0;
}
```

OIP

```
Enter a number:7
Yes
Enter a number:10
No.
```