Fall- 2015

1.0) There are four errors in the following code. List down the emons and show the corrections. Write the output of the corrected progream for the case when users enteres 1 as the readius.

Ans: Line 5 - encore - double x; Connected - double x, result;

Line 7 - eretrort-scanf ("%1f", x); connected - scanf ("1/15", &x);

Line 7 - error - result - cincumferrence (x); - the variable result used in the main function without being defined Connected - double result; result - circumference (x);

Line 11 - eration - int cincumference (double n) connected - double circumferience (double 10) Output of the concreted program for the case; The circumference of the circle is 6.2832

De Write a program that suggests various things given below: You have to code the logic pant:

- i) If-else if control strateture
- ii) Switch case control structure

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Ans:

**include < tdio.h >

int main()

{

int num;

printf ("enter final score > ");

scanf ("%d", & num);

if (num > = 0 & & num <= 19)

printf ("CSE is not cool!");

else if (num > = 20 & & num <= 39)

printf ("Your faculty is not cool!");

else if (num > = 40 & & num <= 59)

printf ("Try a bit hander, you are very close!");

printf ("You do not need help of this program!!!");

}
```

2.2) Write a program that takes a wordless than 25 characters as user input and then displays the first and last characters of the input.

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Ans:
```

```
#include < stdio.h >

#include < string.h >

int main()

{
    char word [25];
    printf ("enter a word > ");
    scanf ("%s", word);
    int i = stolen (word);
    printf ("first character: %c", word[0], word[i-1]);

printf ("first character: %c, last character: %e", word[0], word[i-1]);
```

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2.B) write down a program that will take a password as input to a string and
will print a message indicating whether it is STRONG on WEAK.
         #include stdio.h >
 Ans:
         inf main ()
         chan pass [50];
         printf (" enter password");
        gets (pass);
        int j, i=0, cb=0, cc=0, c1=0, cupn=0, cluin=0;
        while (pass[i] = '\0')
        cc++;
        fon (j='A'; j<='Z'; j++)
           if (pass [i] ==j)
            cupie++; btreak;
         if pass [i]==' ')
        { cb++;
     if (cc>=8 && cb=0 &&cupp>0 && clusp>0)
           prints ("The password is strong");
        else printf ("The password is weak");
       What will be the output of the following code segment?
3.A
                   float a = 3.0, b = 17.0;
                  float * fp;
                  tp = 86;
                 *fp = *fp - 2.0;
                 a = *fp;
                 a++;
                preint & ("a = 1/d, b = 1/d", a, b);
```

Ans: I can not supe what will be output of this program because rapiable a and b are float type variables, but in the prints statement. instead of using of, od is being used.

I have roun this program in codeblocks. The program returns some unusal values.

Consider the following code to answer i) and ii),

* include <stdio.h >

int task (int n);

int main()

int num, xy;

prints ("Enter a positive integer:\n");

seans (""d", &num);

xy = task (num);

int task (int n)

if (n==0)

petum n;

else return n+task (n-1) Uself call to function task ()

Ans: The program neturns the sum of series 1+2+3+4+---- +r

element of an array of 20 integers. Your program should skip the numbers 3 and 6 in calculating the average.

double average (int x []) {