Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering

Semester: (Spring, Year:2022), B.Sc. in CSE (Day)

Course Assignment

Course Title: Structured Programming

Course Code: CSE 104 **Section:PC-213-DA**

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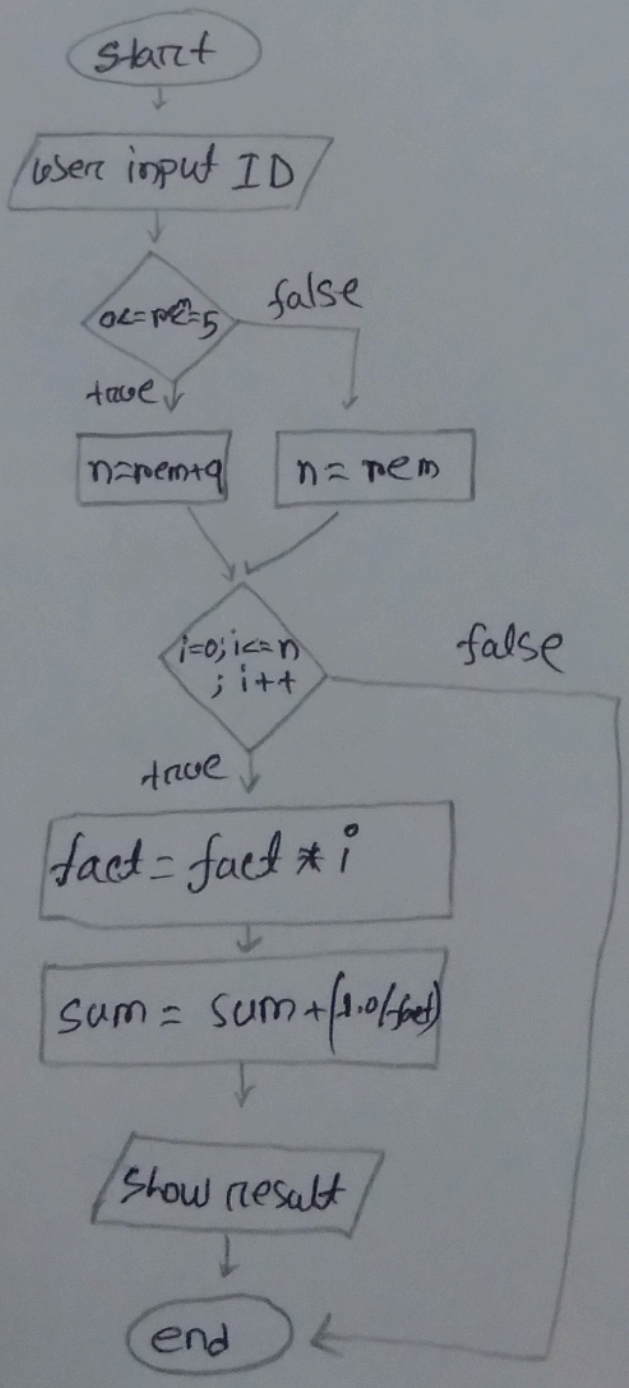
Algorithm:

1. Start
2. Declear ID, rem, n,
3. Inisilaition sum=0 and fact=1.
4. User take your inpat (ID).
5. ID mod 16 and (0<=rem<=5) then n+4=n.
6. loop (inisilaition, condition and update) for fact and sum.
7. Outpat the result.
8. end.

Flowchart:



```c
#include <stdio.h>
int main()
{
 int rem,ID,i;
 float sum=0, fact=1;
printf("Enter your ID");
scanf("%d", &ID)
  rem = ID % 16;
  if (0<=n && rem <=5)
     n = n+4
  else
     n= n;
for (i=1; i<=n; i++)
    {
      fact = fact * i;
      sum = sum + (1.0/fact);
    }
printf("sum = %.4f ", sum);
 return 0;
}
```

Output:

```
Enter Your ID  213902116
sum=1.7183
[Process completed - press Enter]
```