

TAKSHASHILAA COLLEGE,VADODARA.

NOV-APR 2012-13

PL-1

ASSIGNMENT-2

Assign date:- 25th Dec'12.

Submission date: 8th Jan'13.

A1P1. Print marksheet with the use of switch case.

Roll_no, marks of 3 subjects, total, per, grade.

A2P2. WRITE A MENU DRIVEN PROGRAM FOR FOLLOWING OPTIONS:

[USE SWITCH STATEMENT]

EXAMPLE NUMBER IS:-123

1. SUM OF ALL DIGITS.
1. WHETHER NUMBER IS ARMSTRONG NUMBER. [$1^3+5^3+3^3= 153$]
2. WHETHER NUMBER IS PALINDROME NUMBER.[121=121]
3. WHETHER NUMBER IS PRIME NUMBER.
[NUMBER IS DIVISIBLE BY 1 AND ITSELF ONLY]
4. WHETHER NUMBER IS PERFECT NUMBER. [6]
[Divisible by 1,2,3.] $6=1+2+3$.
5. PRINT REVERSE NUMBER.

A2P3. WAP TO PRINT FIBONACCI SERIES UP TO N.

0 1 1 2 3 5...N

A2P4. WAP TO PRINT FOLLOWING SERIES.

1. $1/1^2-1/2^2+1/3^2-1/4^2+.....1/N^2=ANSWER$
2. $1!+2!+3!+4!+.....+N!=ANSWER$
3. $SUM=1+2/2!+3/3!+.....+N/N!$

A2P5. WAP TO PRINT FOLLOWING PATTERNS.[N=ENTERED BY USER]

A2P5A.

```
      1
     1 2
    1 2 3
   1 2 3 4
  1 2 3 4 5
```

A2P5B

```
 5 4 3 2 1
 5 4 3 2
 5 4 3
 5 4
 5
```

A2P5C

.FLOYED'S TRIANGLE

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

A2P6. WAP TO FIND ALL DIVISORS OF ENTERED NUMBER.

EX. NUMBER= 20

ANSWER = 2,4,5,10,20
