**Date: DD/MM/YYYY**

**University/Academic Institution:** Sandip University **Course Name:** M.Tech ACDS

**Batch Name:** 2017-19  **Module Name: Advanced Data Structures**

**Pre -Assignment:**

1. **Write a program to display the following output using a single cout statement.**

**Subject Marks**

**Big Data Technologies 90**

**Statistics 77**

**Advanced Data Structures 69**

**ANS:**

#include <iostream>

using namespace std;

int main()

{

cout<<"subject"<<"marks"<<"\n"<<"bigdata technologies"<<"\t"<<"90"<<"\n"<<"statistics"<<"\t"<<"77"<<"\n"<<"advance data structure"<<"\t"<<"69"<<"\n";

return 0;

}

**Output:**

subject marks

bigdata technologies 90

statistics 77

advance data structure 69

1. **Write a program in c++ to swap value of two ages of Ram and Shyam without using third variable.**

**ANS:**

#include <iostream>

using namespace std;

int main()

{

int a=26,b=23;

cout<<"before swap a="<<a<<"b="<<b<<endl;

a=a\*b;

b=a/b;

a=a/b;

cout<<"after swap a="<<a<<"b="<<b<<endl;

return 0;

}

**Output:**

before swap a=26 b=23

after swap a=23 b=26

1. **Write a program which accepts amount as integer and display total number of Notes of Rs. 100, 50, 20, 10, 5 and 1.**

**For example, when user enter a number, 175,**

**The results would be like this...**

**100: 1**

**50: 1**

**20: 1**

**10: 0**

**5: 1**

**1: 0**

**ANS:**

#include <iostream>

using namespace std;

int main()

{

int amt,R500,R100,R50,R20,R10,R5,R1;

cout<<"Enter amount : ";

cin>>amt;

R500=amt/500;

amt=amt%500;

R100=amt/100;

amt=amt%100;

R50=amt/50;

amt=amt%50;

R20=amt/20;

amt=amt%20;

R10=amt/10;

amt=amt%10;

R5=amt/5;

amt=amt%5;

R1=amt;

cout<<"Rs.500 : "<<R500<<"\nRs.100 : "<<R100<<"\nRs. 50 : "<<R50<<

"\nRs. 20 : "<<R20<<"\nRs. 10 : "<<R10<<"\nRs. 5 : "<<R5<<"\nRe.1 : "<<R1;

return 0;

}

**Output:**

Enter amount : 175

Rs.500 : 0

Rs.100 : 1

Rs.50 : 1

Rs.20 : 1

Rs.10 : 0

Rs. 5 : 1

Re.1 : 0

1. **Write a program which accept two T20 ODI'S averages of Mithali Raj and print their average.**

**ANS:**

#include <iostream>

using namespace std;

int main()

{

float a,b,sum,avg;

cout<<"enter two average values:"<<endl;

cin>>a>>b;

sum=a+b;

avg=sum/2;

cout<<"the average of"<<a<<"and"<<b<<"is"<<avg<<"."<<endl;

}

Output:

enter two average values: 25.36, 12.54

the average of a and b is 18.95

1. **Create your account in github (https://github.com) and push the above programs to your git account.**

**Last Submission Date: 29/01/2018 (04:00 pm)**