



# [ANSWER SHEET]

[Programing Fundamentals]

[Module: Bscs 8<sup>th</sup> semester]

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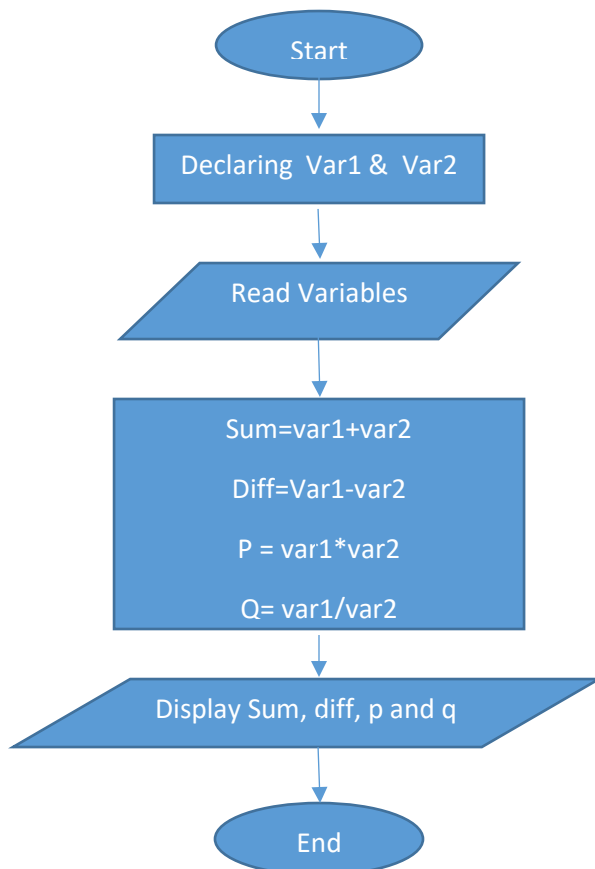
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Q.1.a) .Ans:

### Code:

```
#include <iostream>
using namespace std;
int main(){
    int var1 ;
    int var2 ;
    cout<< "Please enter any two integers : ";
    cin>> var1 >> var2 ;
    cout<< "The sum of the given inputs: " << var1+var2 << endl;
    cout<< "The difference of the given inputs: " << var1-var2 << endl;
    cout<< "The product of the given inputs:" << var1*var2 << endl;
    cout<< "The quotient of the given inputs: " << var1/var2 << endl;
    return 0; }
```

### Flowchart:



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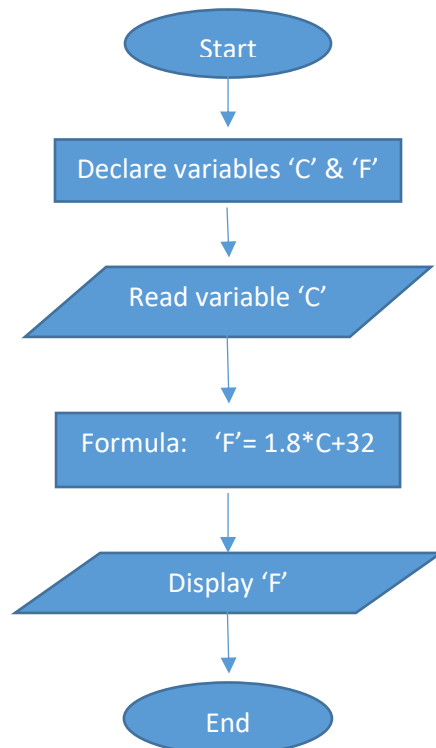
Q.1.b)

Ans:

**Code:**

```
#include <iostream>
using namespace std;
int main() {
    float C ;
    float F ;
    cout<< "Enter the temprature in celsius: ";
    cin>> C ;
    F = 1.8*C+32 ;
    cout<< "Temprature in Forenheit = "<< F ;
    return 0 ; }
```

**Flowchart:**



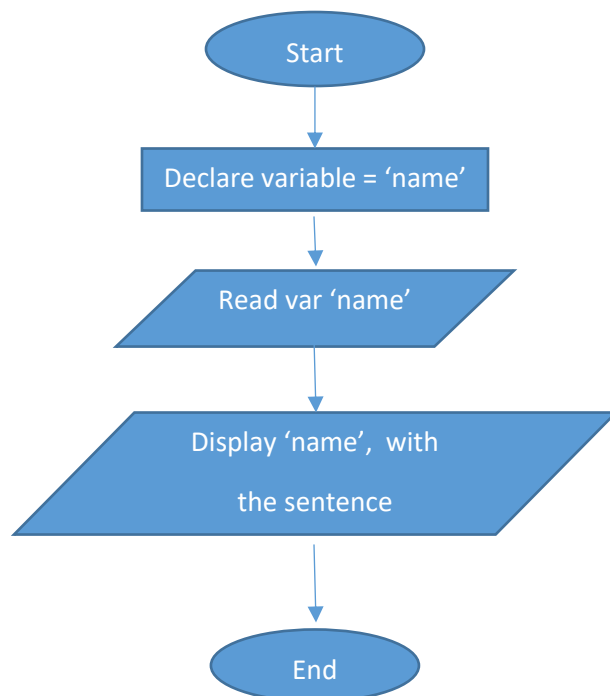
Q.2.a)

Ans:

**Code:**

```
#include <iostream>
#include <string>
using namespace std;
int main(){
    string name;
    cout << "Enter any three characters ";
    cin>> name;
    cout << "Hello, " << name << "! We hope you have a nice day" ;
    return 0; }
```

**Flowchart:**

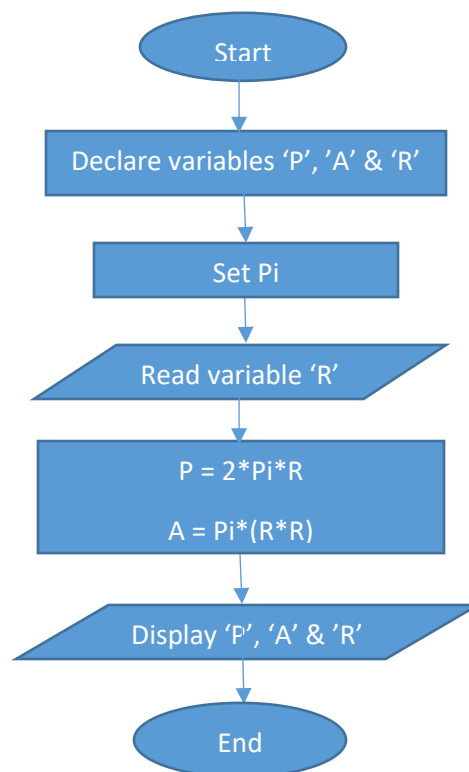


Q.2.b) .Ans:

**Code:**

```
#include <iostream>
#include <string>
using namespace std;
int main(){
    int R ;
    float P , A ;
    float PI = 3.14159 ;
    cout << "Enter the radius of the circle: ";
    cin>> R ;
    P = 2*PI*R;
    A = PI*(R*R);
    cout << "The peremater is: " << P <<endl ;
    cout << "The Area is: " << A <<endl ;
    cout << "The Radius is: " << R <<endl ;
    return 0 ; }
```

**Flowchart:**



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Q.3.a)

Ans:

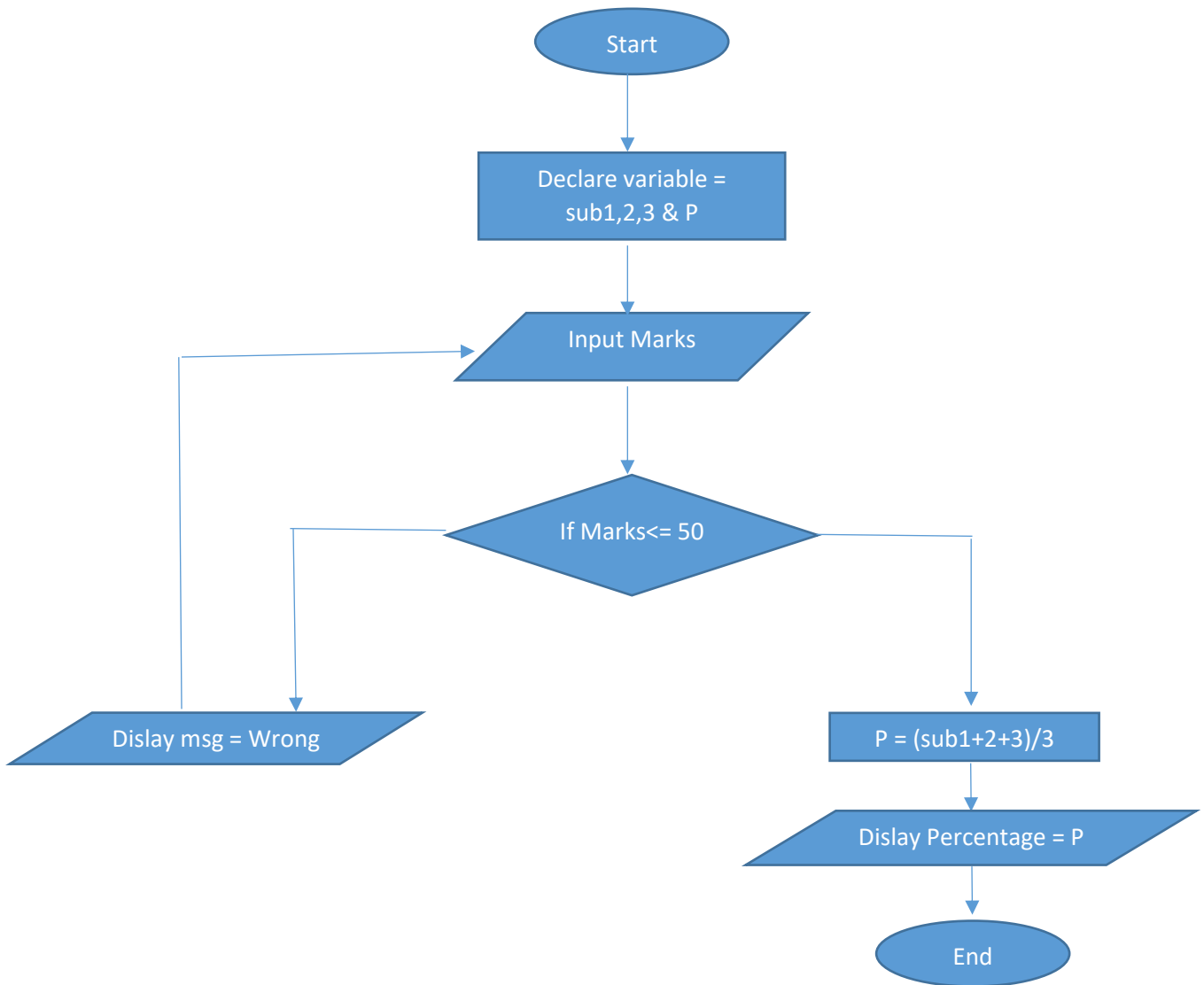
**Code:**

```
#include <iostream>
#include <string>
using namespace std;
int main(){

    int sub1 , sub2 , sub3 ;
    float P ;

    jump:
    cout << "Enter 1st test marks: ";
    cin>>sub1;
    cout << "Enter 2nd test marks: ";
    cin>>sub2;
    cout << "Enter 3rd test marks: ";
    cin>>sub3;
    if((sub1<=50) && (sub2<=50) && (sub3 <= 50)) {
        P = (sub1+sub2+sub3)/3;
        cout << "The percentage of the student is: " << P <<"%" <<endl ;}
    else{
        cout<<"Wrong input! Maximum marks for a test is 50"<<endl;
        goto jump; }
    return 0 ; }
```

Flowchart:



Q.3.b)

Ans:

**Code:**

```
#include <iostream>
#include <string>
using namespace std;
int main(){
    int M , IT , FT ;
    float Q ;
    cout << "Enter the water ammount in KG: ";
    cin>>M;
    cout << "Enter the initial temprature: ";
    cin>>IT;
    cout << "Enter the final temprature: ";
    cin>> FT ;
    Q = M*(FT-IT)*4184 ;
    cout<< "The energy needed to heat the water is: " << Q ;
    return 0 ; }
```

**Flowchart:**

